



westonandsampson.com

273 Dividend Road
Rocky Hill, CT 06067
tel: 860.513.1473

REPORT

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Metropolitan District Commission

Reservoir No. 6
PCB Remedial Action Plan



TABLE OF CONTENTS

	Page
EXECUTIVE SUMMARY	ES-1
TABLE OF CONTENTS	i
LIST OF FIGURES	ii
LIST OF TABLES	ii
LIST OF APPENDICES	ii
 1.0 INTRODUCTION.....	 1-1
1.1 Site History and Operations.....	1-1
1.2 Filtered Water Basin Construction	1-2
1.3 Previous Environmental Investigations and PCB Abatement	1-2
1.4 Conceptual Site Model	1-3
1.4.1 PCB-Source Material	1-3
1.4.2 Potentially Impacted Media.....	1-3
1.5 Applicable Regulations	1-3
1.6 Remedial Goals.....	1-4
1.7 Project Team.....	1-4
 2.0 REMEDIATION	 2-1
2.1 Concrete.....	2-1
2.2 Soil	2-2
2.3 Site Restoration.....	2-3
2.4 Waste Management	2-3
2.4.1 Solid Wastes	2-3
2.4.2 Aqueous Wastes	2-4
2.5 Dust Control and Air Monitoring.....	2-4
2.6 Erosion and Sedimentation Control Measures.....	2-4
2.7 Dewatering	2-5
2.8 Decontamination	2-5
2.9 Site Security	2-5
2.10 Environmental Land Use Restrictions	2-5
 3.0 PROJECT SUBMITTALS	 3-1
3.1 Notification and Certification	3-1
3.2 Owner Submittals	3-1
3.3 Remediation Observation Contractor Submittals	3-1
3.4 Remediation Contractor Submittals	3-1
3.5 Submittals Schedule.....	3-2
 4.0 DOCUMENTATION AND REPORTING	 4-1

4.1	Field Documentation	4-1
4.2	Post-Remediation Reporting.....	4-1
5.0	PROJECT SCHEDULE	5-1

LIST OF FIGURES

Figure 1	Concrete Sampling Schematic
Figure 2	Basin Sidewall Soil Excavation Sampling Locations

LIST OF TABLES

Table 1	Concrete Analytical Data
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LIST OF APPENDICES

Appendix A	Selected Contract Drawings
Appendix B	Waste Manifests
Appendix C	Analytical Data Reports
Appendix D	Structural Evaluation
Appendix E	Owner Certification

EXECUTIVE SUMMARY

On behalf of the Metropolitan District (MDC), Weston & Sampson Engineers, Inc. (Weston & Sampson) has prepared this remedial plan to address polychlorinated biphenyl (PCB) containing building materials and releases from these materials to abutting concrete in the Filtered Water Basin at the Reservoir No. 6 Water Treatment Facility. MDC is seeking approval of this plan under the federal PCB regulations, 40 CFR 761.61(c), 62(a), and 79(h), for the remediation of PCB bulk product and remediation waste. The Connecticut Department of Public Health had previously required the MDC to rehabilitate the Filtered Water Basin which is used to store potable water at the Reservoir No. 6 facility prior to distribution. Contract documents have been prepared for the rehabilitation of the basin and this remedial plan and the procedures specified to address PCBs will be included as part of the scope of work for the selected contractor.

The interior of the basin was inspected during the planning phase for the Filtered Water Basin Rehabilitation project and a PCB-containing expansion joint caulk was discovered during this inspection. The caulk was removed from the interior of the Filtered Water Basin at the time of the discovery and the basins were cleaned.

Initial sampling of concrete was performed at the time of the caulk removal to define the extent of PCB releases. In addition, an MDC consultant modeled potential releases of PCBs to the drinking water supply to evaluate potential risk and determined that the remaining PCBs in the existing concrete did not pose a risk to public health. The MDC also continues to sample and analyze drinking water samples as required by the Safe Drinking Water Act to determine compliance with the Maximum Contaminant Levels for PCBs and no PCBs have been detected in any sampled collected during the operating history of the Water Treatment Facility.

Site Description and History

The Reservoir No. 6 Water Treatment Facility, located in Bloomfield, Connecticut, is one of two water treatment facilities operated by the MDC. Reservoir No. 6 Water Treatment Facility is a conventional water treatment plant and was built between 1968 and 1972. Today, Reservoir No. 6 along with the West Hartford facility, treat 50 million gallons of water a day.

The high period for use of potable water supplied by the facility is between Memorial Day and Labor Day. During this time period, both compartments of the filtered water basin are needed to store potable water to meet demand and the compartments cannot be accessed or taken off line. Both compartments are normally in use year round and only one of the compartments may be taken off line at any time and only between September and May.

Construction

The filtered water basin consists of two concrete compartments that are approximately 156 feet wide each for a total basin width of 312 feet. The two compartments are both 280 feet long and the approximate depth (base to ceiling) of the compartments is 18 feet. When the basin was inspected in 2013, building materials were surveyed and the only caulk identified within the basin was installed in the two expansion joints (one in each compartment). On the interior, the expansion joint runs along the entire interior perimeter (i.e., base, walls, and ceiling) and each are approximately 600 feet in length. On the exterior, the expansion joint runs along the exterior walls and upper surface of the basin and each joint is approximately 315 feet in length. There is no caulk installed on the exterior base of the basin.

Previous Abatement and Environmental Investigations

The expansion joint caulk identified during the initial survey was tested for PCBs at the time of discovery and assessed to contain PCBs at a concentration greater than 50 mg/kg. The caulk was classified as a PCB Bulk

Product Waste and was removed from the entire interior of both compartments and from the expansion joints along the top of both compartments.

Concrete abutting the caulk on both the interior and exterior of the basin was sampled and assessed to be impacted by PCBs. These PCBs detections were mostly limited to within twenty-four inches of the expansion joint location.

Conceptual Site Model

The only identified source of PCBs within the basin compartments was the caulk installed in the expansion joints. The caulk was installed within these expansion joints around the entire perimeter of the interior of the basin and on the sidewalls and top surface of the exterior. PCBs were identified in the concrete abutting the expansion joint on both the interior and exterior of the basin. PCBs are known to release from a caulk into abutting building materials through diffusion. This diffusion of PCBs from the caulk into the concrete is the suspected source of the PCBs in concrete.

Applicable Regulations

The Federal PCB regulations do not authorize the use of PCBs in “open systems” and PCB-containing building materials, such as the caulk identified in the basin, are classified as PCB Bulk Product Wastes if the PCB concentration is ≥ 50 mg/kg. PCB Bulk Product Wastes must be removed from use and disposed as indicated in §761.62. Abutting building materials impacted by releases of PCBs from a PCB Bulk Product Waste are regulated as PCB Remediation Wastes if the PCB Bulk Product Waste has been removed under a separate plan. Soil impacted from releases of PCBs from a PCB Bulk Product Waste are also regulated as PCB Remediation Wastes. The remediation of PCB Remediation Wastes is described in §761.61.

Connecticut General Statutes 22a-463 through -469, inclusive, prohibit the use of PCBs in open systems. The removal of these materials from use is required if PCB concentrations are >1 mg/kg. Releases of PCBs to soil are regulated under the Regulations of Connecticut State Agencies 22a-133k-1 through -3, inclusive, the Remediation Standard.

Project Objectives and Remedial Goals

The objectives of the project are to remove PCB-containing building materials with total PCB concentrations greater than one milligram per kilogram to comply with the applicable federal and state regulations. In addition, releases of PCBs to building materials and soil will be remediated to a concentration of <1 mg/kg which is the strictest remedial standard contained within the federal and state regulations.

Remediation in this manner will not require Environmental Land Use Restrictions to be placed on the property. In addition, no inspections or monitoring for PCB-impacts will be required following the completion of the project.

Remedial Actions

Remediation of the basin will include removal of the remaining PCB Bulk Product Waste caulk from the exterior of the basin and remediation of soil and concrete which have been impacted by PCBs at a concentration >1 mg/kg. Verification sampling will be performed to assess that remedial goals have been achieved. Wastes will be stored, handled and disposed in accordance with the requirements of the applicable federal and state regulations.

The Filtered Water Basin will be restored following the completion of the remedial actions and other corrective measures required to rehabilitate the basin. A final report, summarizing the remedial actions, will be submitted to federal and state regulators following the completion of the project.

1.0 INTRODUCTION

On behalf of the Metropolitan District (MDC), Weston & Sampson Engineers, Inc. (Weston & Sampson) has prepared this remedial plan to address polychlorinated biphenyl (PCB) containing building materials and releases from these materials to abutting concrete in the Filtered Water Basin at the Reservoir No. 6 Water Treatment Facility. MDC is seeking approval of this plan under the Toxic Substances Control Act (TSCA) 40 CFR 761.61(c), 62(a), and 79(h) for the remediation of PCB bulk product and remediation waste. The MDC is a public, non-profit municipal corporation created by the Connecticut General Assembly in 1929 to provide potable water and sewer systems for people and businesses in the Hartford area and the MDC owns and operates the facilities at Reservoir No. 6. Communities in the area currently served by the MDC include Bloomfield, East Hartford, Hartford, Newington, Rocky Hill, West Hartford, Wethersfield, and Windsor, Connecticut.

The Connecticut Department of Public Health had previously required the MDC to rehabilitate the Filtered Water Basin which is used to store potable water at the Reservoir No. 6 facility prior to distribution. The Filtered Water Basin is separated into two compartments and each compartment can store approximately five million gallons of potable water. Contract documents have been prepared for the rehabilitation of the two compartments and this remedial plan and the procedures specified to address PCBs will be included as part of the scope of work for the selected contractor.

The interior of the basin compartments were inspected in the winter of 2013 during the planning phase for the Filtered Water Basin Rehabilitation Project. A PCB-containing expansion joint caulk was discovered during this inspection. The caulk was entirely removed from the interior of both compartments at the time of the discovery and the basins were cleaned. The expansion joint caulk was also removed from the exterior of the basins along the top surface.

Initial sampling of concrete was performed at the time of the caulk removal to define the extent of PCB releases. In addition, an MDC consultant modeled potential releases of PCBs to the drinking water stored within the basin to evaluate potential risk and determined that the remaining PCBs in concrete did not pose a risk to public health. The MDC also continues to sample and analyze drinking water samples for PCBs, as required by the Safe Drinking Water Act to determine compliance with the Maximum Contaminant Levels. No PCBs have been detected in any sample collected during the operating history of the Water Treatment Facility and that the system is in compliance with all applicable federal PCB regulations.

1.1 Site History and Operations

Reservoir No. 6 is a drinking water treatment facility with a water reservoir and treatment facilities that treat, store, and distribute potable water to MDC customers. A site location map and a site plan for the area of the filtered water basins is provided on Drawing C-01 from the Contract Documents in **Appendix A**. Construction began on the Reservoir No. 6 water treatment facility in West Hartford in the late 60's and the plant went on-line in 1972. Today, Reservoir No. 6 along with the MDC's other West Hartford facility, purify 50 million gallons of water a day. Together these facilities ensure the quality of the MDC's water meets or exceeds the standards of the Federal Safe Drinking Water Act of 1974 and subsequent amendments and requirements of the law.

The high period for use of potable water supplied by the facility is between Memorial Day (late May) and Labor Day (early September). Both compartments are needed to store potable water to meet demand during this time period and when the compartments are in use they cannot be accessed. Thus, the basins may only be taken off line and entered to perform sampling or the planned rehabilitation work between September and May.

Both compartments are normally in use year round and only one of the compartments may be taken off line at any time. Thus, any sampling, PCB remediation, or other activities described in this remedial plan that requires basin access can only be performed between September and May and only one of the basins may be accessed at any time.

1.2 Filtered Water Basin Construction

The filtered water basin is entirely buried and covered with a minimum of 18 inches of pea stone and soil on the top surface. The two compartments are approximately 156 feet wide each and the basin has a total width of 312 feet. The two compartments are both 280 feet long and the base and upper surface of the compartments are sloped but the approximate depth (base to ceiling) of the compartments is 18 feet. There are a series of columns within the basin that support the roof. Drawing S-01 from the Contract Documents, attached in **Appendix A**, depicts the construction and shows the column lines, some major features of the basins, and locations of cracked and damaged concrete requiring repair. On Drawing S-01, the center wall that divides the two compartments is along the CL line and the expansion joints in each compartment are along the G/H line.

When the basin was inspected in 2013, building materials were surveyed and the only caulk identified within the basin was installed in the two expansion joints (one in each compartment). On the interior, the expansion joint runs along the entire interior perimeter (i.e., base, walls, and ceiling) and each are approximately 600 feet in length. On the exterior, the expansion joint runs along the exterior walls and upper surface of the basin and each joint is approximately 315 feet in length. There is no caulk installed on the exterior base of the basin.

1.3 Previous Environmental Investigations and PCB Abatement

The two compartments were inspected separately during the winter of 2013 and 2014 to evaluate their condition. During this inspection, a caulk was identified in an interior expansion joint, sampled, and assessed to contain PCBs at a concentration greater than 100,000 mg/kg. Following this discovery, the caulk and a cork backing material were removed from service, disposed as PCB waste, and new backing materials and caulking installed so that the basins could be brought back into service. Waste manifests for materials removed and disposed of during this initial investigation and abatement phase are included in **Appendix B**.

Concrete adjacent to the caulk was sampled following the procedures specified in the United State Environmental Protection Agency (EPA) Region 1 Standard Operating Procedure for Sampling Porous Materials with most samples collected of the surface interval (0 to 0.5 inches) with limited additional sampling of the concrete at deeper depths. Samples were sent to a Connecticut-certified analytical laboratory and analyzed for total PCBs by EPA Method 3540/8082. The data are presented in Table 1 and the analytical data reports are attached in **Appendix C**.

The analytical results from this sampling indicate that PCB concentrations decrease with distance from the caulk joint and are generally <1 mg/kg at a distance of 18 to 24 inches from the caulk. However, additional sampling as described in **Section 2.1** is required to complete the delineation of PCB impacts to concrete.

It was also assessed that an expansion joint caulk was present on the exterior of the basin. The basins are buried under a minimum of 18" of pea stone and soil across the top surface of the basin. To expose both of the expansion joints, soil and pea stone was removed from a four foot wide section (two feet to either side of the expansion joint) and disposed as PCB Remediation Waste ≥ 50 mg/kg. The expansion joint caulk and backing materials was removed and replaced with new materials so that the basin could be brought back into use. The area was then restored with new pea stone and soil but no barrier was placed over the remaining PCB-impacted concrete.

Limited additional sampling of exterior concrete was performed and the data are also presented in Table 1. Data from this sampling are similar to the data from the interior of the basin.

The expansion joint caulk is also present along the side walls of the basin but this material was not removed at the same time as the interior caulk because it could not be accessed without performing significant soil excavations. Soil in contact with this caulk was not sampled as well. To remediate the concrete abutting the caulk and the remaining PCB Bulk Product Waste caulk, additional sampling to characterize the soil that will be excavated to access the concrete is required and described in **Section 2.2**.

1.4 Conceptual Site Model

The following provides a conceptual site model (CSM) for the identified and suspected PCB-impacts at the filtered water basin. Additional sampling required to fully delineate the PCB impacts has not been performed to date.

1.4.1 *PCB-Source Material*

The only identified source material for PCBs in the Filtered Water Basin is the caulk that was installed within the expansion joints both interior and exterior to the basin. It is believed that this caulk was installed at the time of construction as there are no records indicating that a removal and replacement action prior to that performed in 2013. Following cleaning of the basin, there was no evidence found for the application of a black asphaltic or tar coating to waterproof the concrete and the sampling of the concrete performed did not indicate the presence of a coating. In addition, any pumps or other equipment used in water distribution are installed exterior to the basin so these are not a potential source.

1.4.2 *Potentially Impacted Media*

PCBs are known to leach from caulks applied to concrete surfaces through diffusion. The sampling performed to date indicates that this type of release occurred within the basins and that this leaching is mostly limited to within 24 inches or 2 feet of the caulk seam. However, some of the data indicates that PCBs leached further than 2 feet and additional data are needed to complete the delineation.

Caulks on the exterior of the basin are in contact with soil as the entire structure is buried beneath a minimum of 18 inches of soil. Caulks are known to deteriorate with time and release to the surrounding soil. No data has been collected yet to delineate these releases and additional sampling is planned as part of this remedial plan.

1.5 Applicable Regulations

The only identified PCB-containing building material, the expansion joint caulk, is regulated under §761.62 of the federal PCB regulations found in Chapter 40 of the Code of Federal Regulations, Part 761 (40 CFR Part 761) and sections 22a-463 through -469, inclusive, of the Connecticut General Statutes. Because PCB concentrations in the caulk were ≥ 50 mg/kg, the caulk is classified as a PCB Bulk Product Waste. The use of an “open system” application like caulk is not authorized for continued use under either the federal or state regulations and the caulk must be removed from use.

Because the caulks were removed under a separate remedial action, the building materials impacted by releases of PCBs will be handled, stored, and disposed of as PCB Remediation Wastes. Any soil impacted by PCB releases from the caulk will also be treated as PCB Remediation Wastes. Remediation of PCB Remediation Wastes is described in §761.61 and the remedial goals are established in §761.61(a)(4). The Connecticut Department of Energy and Environmental Protection (CT DEEP) Remediation Standard Regulation (RSR) found in Sections 22a-133k-1 through -3, inclusive, of the Regulations of Connecticut State Agencies are also applicable to soil impacted from releases from a PCB-containing building material. Standards for soil remediation are found in Section 22a-133k-2.

The minimum remedial standard defined in §761.61(a)(4) for a PCB Remediation Waste is found in §761.61(a)(4)(i)(A). This standard of ≤ 1 mg/kg is for high occupancy areas and does not require further conditions be placed. The minimum remedial standard for PCBs in soil in the RSRs is found in Appendix A. The Residential Direct Exposure Criteria (RDEC) for PCBs is 1 mg/kg. The facility is neither high occupancy or residential in use. However, given the use of the facility in generating potable water, these standards will be applied to the remediation.

1.6 Remedial Goals

The goals for remediation are:

- To remove PCB-containing building materials manufactured with PCB concentrations >1 mg/kg. The only material of this type identified within the basin is the expansion joint caulk. This caulk has been completely removed from the interior of the basins and replaced with another caulk. The caulk has also been removed from the exterior of the basin along the top. The remaining PCB Bulk Product Waste caulk, still in place along the walls of the basin on the exterior, will be removed during the implementation of the remedial actions described in this plan.
- To remove materials impacted by the releases of PCB with concentrations >1 mg/kg. Concrete in the basin is known to require remediation to achieve this remedial goal and additional testing will be performed to fully characterize the extent of PCB releases. Additional soil testing will be performed to evaluate the extent of remediation required to address PCB impacts to soil. It will be assumed that the replacement caulk is PCB-impacted and is classified as a PCB Remediation Waste.

Remediation in this manner will reduce PCB concentrations to less than the lowest applicable remedial standards established in the federal and state PCB regulations. As such, land use restrictions will not need to be filed on the site following remediation. The Filtered Water Basin will be inspected in the future to assess the condition of the repairs and the general condition of the basin, but long-term inspection or monitoring for PCBs is not proposed since impacts will be reduced to non-regulated levels (<1 mg/kg).

1.7 Project Team

It is anticipated that the remediation project team will consist of the parties listed below. The responsibilities for each of these parties regarding the scope of work described in this Notification are described below and further detailed within.

- Owner – The MDC, responsible for the performance of the work performed by their contractors as described in the EPA Approval to be issued for this project.
- Remedial Contractor – Contracted to the MDC, responsible for performance of remediation activities (e.g., soil excavations and concrete removal) and other activities designated to be their responsibility as described in this Notification, the EPA Approval, and the Contractor's Work Plan that they will prepare and submit to EPA.
- Remediation Observation Contractor – Contracted to the MDC, responsible for the collection of samples and observation and documentation of the remedial activities as described in this Notification and the EPA Approval.

2.0 REMEDIATION

PCB impacts have been identified in the concrete substrate at locations adjacent to the former location of the PCB Bulk Product Waste expansion joint caulk. This concrete will be remediated to the established remedial goals but additional sampling will be performed prior to this remediation to delineate the extent of PCB releases. PCB impacts are suspected for soil in contact with the expansion joint caulk. Soil will be remediated to the established remedial goals but additional sampling will be performed prior to this remediation as well to delineate the extent of PCB releases.

Because of the size of the structures involved, the complexity of the remediation required, and the difficulty in accessing the basin compartments, complete delineation of these PCB impacts has not been performed to date. The sampling defined below is also designed to serve as a pre-remediation verification program because in many cases it will not be possible to perform verification sampling after the remedial actions have been performed.

2.1 Concrete

A minimum of two feet of concrete will be removed from either side of the expansion joint, a four foot wide cut, as part of the rehabilitation project. It is not feasible to cut the entire length of the expansion joint at any one time as this could lead to shifting and failure of the basin. Even if the concrete is removed in small sections, temporary supports and other measures will be required to maintain the integrity of the basin as repairs are made and remediation performed. To successfully complete the rehabilitation along with the remediation, it will be necessary to pre-characterize the extent of concrete requiring remediation so that the contractor can prepare and install their temporary supports, perform the concrete cuts required to remediate PCB impacts, remove the concrete, and then construct the replacement for each section. The lengths of the sections cut may vary based upon the width of the pre-characterized cut to achieve the remedial goals. A review of structural concerns caused by the remediation activities was performed by a professional structural engineer and is attached in **Appendix D**.

Based on the previously performed characterization results, PCB impacts were greatest in the upper half-inch of the concrete. Thus, sampling limited to this surface interval is considered sufficient to delineate the PCB impacts in concrete. Verification sampling will be performed on both sides of each of the expansion joints within each of the compartments prior to performing concrete cuts. Pre-remediation concrete verification samples will be collected following the EPA Region 1 SOP for sampling porous materials and submitted to the selected Connecticut-certified analytical laboratory for analysis of total PCBs using EPA Methods 3540/8082.

The interior of each of the basin compartments will be entered, sampled, and remediated separately as one of the compartments must be in use at all times. The expansion joint caulk was installed over the entire interior perimeter of both compartments. Thus, sampling will be performed over the entire perimeter on the interior and, as shown on **Figure 1**, sampling is proposed to be performed at intervals of 15 feet and staggered on either side of the expansion joint to provide the greatest coverage. However, verification sample locations may need to be adjusted in the field because of the presence of obstructions that may not allow for spacing of exactly 15 feet.

Each of the interior expansion joints has an approximate length of 600 feet so a total of 40 verification samples will be collected on each side of the expansion joint, 80 per compartment, and 160 total verification samples on the interior of the basin. Mobile scaffolding or other means will be required to access the walls and ceiling of the structure for the sampling.

The exterior of each of the basin compartments will be sampled following removal of soil as described in **Section 2.2**. It is anticipated that the exterior sampling described below will be performed separately for each

compartment as soil weight has been indicated as being important to maintaining the integrity of the tanks in the structural assessment. The expansion joint caulk was installed over the top and the two sidewalls of the basin but not along the exterior base of the tank. Each joint has an approximate length of 315 feet and samples will be collected at the frequency and pattern as shown on **Figure 1**. A total of 21 verification samples will be collected on each side of the expansion joint, 42 per compartment, and 84 total verification samples on the exterior of the basin.

A minimum of 244 pre-remediation verification samples will be collected and considered as indicating remedial goals have been achieved if the sample results are ≤ 1 mg/kg total PCBs. Additional verification samples will be collected further out from the expansion joint at the location of each failed verification sample collected during the first round. This process will be continued until a cut line in the concrete can be established with verification sample results achieving the remedial goal.

Once the verification sampling has been completed on the interior and exterior surface of a compartment, an amendment to this remedial plan will be submitted to EPA and CT DEEP. This amendment will include tables and figures presenting the verification sample data and the final location of cuts in the concrete for that compartment.

The selected remedial contractor will be responsible for determining the means and methods and the sequencing of the concrete remediation. These details will be included in the Contractor's Work Plan for the concrete removal which will be submitted after the verification sampling data report has been reviewed and accepted by EPA and CT DEEP.

2.2 Soil

Soil was previously removed from the top surface of the basin so that the caulk in the expansion joints could be accessed, removed, and then disposed. The width of soil excavation for this removal action was four feet, extending two feet on either side of the expansion joint. The top side of the basin compartments were then restored following removal of the expansion joint caulk by installing new backing materials and caulk and then backfilling the excavations over the basin with 6 inches of pea stone and then 12 inches of soil. A barrier was not placed over the PCB-impacted concrete to isolate it from the newly placed backfill materials.

The backfill materials placed following the removal of the caulk have been in contact with PCB-impacted concrete. In addition, the perimeter of the excavations has not been tested to assess if sufficient soil was removed during the original excavation work to remediate PCB impacts. Additional characterization samples will be collected of soil on the top surface of the basin compartments as follows:

- Soil samples will be collected every 20 feet along the excavation perimeters. Each compartment is 280 feet long so a total of 19 samples will be collected from each excavation sidewall, 38 samples per compartment, and a total of 76 sidewall characterization samples for the basin.
- Soil samples will be collected every 20 feet along the expansion joint at the point of contact between the soil and the joint. A total of 19 samples will be collected for each compartment and a total of 38 samples for the basin.

Four soil excavations are proposed to remediate soil potentially impacted by PCBs at the basin sidewalls. A schematic showing the approximate locations of the excavations, which will be centered on the expansion joint present on the sidewalls, as well as the borings to be performed to pre-verify the excavations is shown on Figure 2. Pre-remediation verification sampling is considered necessary because the excavation will need to be performed within the sheet pile area.

The basin is buried and the sidewalls are covered with a sloping soil surface. To clear a sufficient area for the concrete of the basin to be remediated, a sheet pile box extending four feet out from the concrete sidewall of

the basin and ten feet wide (centered on the expansion joint) will be constructed at each of the four locations where the expansion joint is located within the sidewall. Sampling will be performed at the approximate locations shown on **Figure 2** prior to the installation of the sheet pile as follows:

- One boring will be performed at the location of the expansion joint and soil samples will be collected at 0 to 0.5 feet below ground surface (ft bgs), 5 to 5.5 ft bgs, 10-10.5 ft bgs, 15-15.5 ft bgs, and 20-20.5 ft bgs.
- Four borings will be performed within the perimeter of the sheet pile box as shown on the figure and soil samples will be collected at the same intervals listed above.

Soil samples described above will be submitted to a Connecticut-certified analytical laboratory and analyzed for total PCBs using EPA Methods 3540/8082. The data will be summarized in an amendment to be submitted to EPA and CT DEEP which will include the following:

- Data tables summarizing the soil data and figures showing the sampling locations;
- Procedures for the remediation of soil impacts found to be >1 mg/kg total PCBs in each of the locations; and
- Proposed disposal facilities for soil removed as PCB Remediation Waste.

2.3 Site Restoration

Concrete will be restored as required in the Contract Documents following the removal of PCB-impacted concrete. Soil excavations will be backfilled/compacted up to current grades and seeded at the surface. The extent of the concrete and soil remediations will be documented by the Remediation Observation Contractor for inclusion in the final remedial action report.

2.4 Waste Management

Disposal facilities for each of the waste streams described below will be determined by the selected remedial contractor and listed in the Contractor's Work Plan to be submitted to EPA prior to initiating work. The procedures below describe how the remedial contractor will be required to handle and store each of the waste streams and the types of disposal or decontamination facilities that will be allowed for use.

2.4.1 Solid Wastes

Solid PCB wastes generated during the concrete remediation will be stored in lined rolloff containers for a period not to exceed 30 days. If wastes are being generated at a pace such that weight minimums for transport and disposal cannot be generated within the 30-day limit, the Remediation Oversight Contractor shall submit a modification request to EPA to allow for the rollofts to be classified as 180-day storage areas in compliance with §761.65 (c)(9). The concrete, the replacement expansion joint caulk, and the remaining original caulk will be disposed as PCB Remediation Waste with total PCB concentrations ≥ 50 mg/kg at a Chemical Waste Landfill complying with the requirements of §761.75. No attempt will be made to segregate these materials.

Handling, storage and disposal procedures for soil to be excavated will be developed based upon the proposed sampling as described in **Section 2.2**. An amendment to this remedial plan will be prepared and submitted to EPA and CT DEEP following the completion of the soil sampling. This amendment will include a summary of the soil data collected and proposed procedures for handling, storage, and disposal of the soil. If soil testing finds total PCB concentrations ≥ 50 mg/kg, the soil will be handled, stored, and disposed in the same manner as described above for the concrete wastes generate. If soil testing finds total PCB concentrations <50 mg/kg, the soil will be handled and stored as described above but the soil will be disposed at a Subtitle D permitted landfill permitted to accept PCB Remediation Waste at a concentration <50 mg/kg.

The remedial contractor shall transport the solid PCB wastes to a waste storage area to be established at the site. The rolloff containers will be stored within this area which will be surrounded by a fence and an M_L mark will be placed on the fence. An M_L mark will be placed on each of the rolloff containers when wastes are first placed into the rolloff. The remediation observation contractor shall mark the date that the rolloff container was first used for storage on the M_L mark and shall be responsible for tracking the time of storage onsite. If wastes are not generated at a sufficient rate to fill the rolloff within the 30-day temporary storage limit, EPA will be notified and a request to extend the storage period submitted for review.

Other solid wastes generated during the remediation, expected to consist of personal protective equipment and solid decontamination wastes, will be disposed of with the PCB wastes with which they have been generated. Decontamination wastes from equipment used to remediate concrete and PPE worn by site workers during concrete remediation will be disposed of with the concrete. Decontamination wastes and PPE from the soil excavations will be disposed of with the soil.

2.4.2 Aqueous Wastes

Aqueous wastes generated during the remediation are expected to include any water collected during the wet saw cutting of concrete (if the contractor selects this method) and any water wastes generated during decontamination of equipment. Aqueous wastes will be collected and stored in 55-gallon drums and the drums will be stored within the fence line of the waste storage area. Each drum generated will be tested and analyzed for total PCBs by EPA Methods 3510 and 8082.

If total PCB concentrations in the aqueous waste are assessed to be <0.5 ug/L, the water will be decontaminated without regard to PCBs. If total PCB concentrations are <3.0 ug/L, the water will be discharged to a POTW operated by the MDC. If total PCBs concentrations in the aqueous waste are ≥3.0 ug/L, the water will either be sent offsite for incineration or shipped to the water decontamination facility at the Model City Landfill. Selected decontamination options for water will be specified in the Contractor's Work Plan.

2.5 Dust Control and Air Monitoring

During soil excavation and concrete remediation activities that could generate dust, the remediation oversight contractor will continuously monitor dust concentrations and inform the contractor if additional dust control methods are required. The oversight contractor will be responsible for submittal of an air monitoring plan to EPA as described in Section 3.3. However, an action limit of 120 micrograms-per-cubic meter (µg/m³) dust above observed background will be utilized. This action limit represents 80% of the 24-hour US EPA National Ambient Air Quality Standards (NAAQS) for PM₁₀ of 150 µg/m³. If dust concentrations exceed this level, work will be stopped until engineering controls or additional dust control measures (e.g. water missing, wind barriers etc.) are implemented.

During interior concrete removal activities, polyethylene sheeting, or equivalent, shall be installed as a dust barrier to prevent migration of PCB impacted concrete dust from migrating outside of the work area. Additional engineering controls (wet methods, HEPA exhaust filtration) shall be implemented as necessary for both interior and exterior cutting of concrete. Berms or other control measures will be used to collect water is wet saw-cutting of the concrete is used. Water collected during wet cutting of concrete will be handled, stored, characterized, and decontaminated as described in Section 2.4.2.

2.6 Erosion and Sedimentation Control Measures

Erosion and sedimentation control measures will be employed during the remediation activities in accordance with the project design documents. Sedimentation controls will be installed along the downgradient perimeter areas of the site that will receive stormwater from soil excavation activities. These structures will be observed and maintained on a regular basis for the duration of the project and will be installed prior to commencing field

activities. Perimeter sedimentation control will include silt fencing, filtration logs or hay bales installed along the perimeter of the work zone, in stockpile/staging areas, or as needed.

2.7 Dewatering

It is anticipated that the soil excavations will need to be dewatered. The dewatering effluent from PCB soil excavations will be filtered and the water handled, stored, tested, and decontaminated as described in **Section 2.4.2**. The filter materials will be handled, stored, and disposed of with the soil from the excavation as described in **Section 2.4.1**.

2.8 Decontamination

Following the completion of the cleanup, the selected remediation contractor will be responsible for the decontamination of equipment that has come in contact with PCB impacted media (excavator bucket, hoe ram, concrete saw etc.) in accordance with the procedures specified in §761.79(c)(2)(i) or (ii). The Contractor will specify the specific procedures to be implemented in their Contractor's Work Plan. However, for equipment that is decontaminated prior to use in the basins, decontamination will be limited to a fifty percent d-limonene solution in a double wash/rinse procedure because Performance Based Organic Decontamination Fluids are not appropriate for use on equipment that will be used in the basin. Solid and aqueous wastes generated during decontamination activities will be stored, handled, and disposed of or decontaminated as described in **Sections 2.4.1 or 2.4.2**.

2.9 Site Security

There is public access to recreational trails around the reservoir. However, the entire drinking water facility is surrounded by fencing and access to the Reservoir No. 6 facility can only be gained through gated and controlled entry points. Only MDC personnel or persons authorized by the MDC may gain access through the gates.

In addition to these site controls, additional security for the remediation activities will include:

- The filtered water basin is considered to be a confined space and entry points will be controlled by placing barriers and signs;
- Fencing will be placed around each soil excavation area following the completion of each work day; and
- Fencing will be placed around the perimeter of the designated waste storage area and wastes will be contained within this perimeter until transported offsite.

2.10 Environmental Land Use Restrictions

Environmental Land Use Restrictions will not be required if remedial goals are achieved.

3.0 PROJECT SUBMITTALS

The following is a listing of the submittals that are anticipated during the execution of the remedial project.

3.1 Notification and Certification

In accordance with 40 CFR §761.61(a)(3)(E), this remedial plan serves as the Notification by MDC to the EPA Region 1 PCB Coordinator and will be provided to state (CT DEEP), local environmental officials (Town Health Department), as well as the Connecticut Department of Public Health. Attached in **Appendix E** is a written certification, signed by a representative of MDC (owner of the property where the cleanup site is located) indicating that sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to assess or characterize the PCB impacts at the cleanup site are on file at the location designated in the certificate and are available for EPA inspection.

3.2 Owner Submittals

In addition to the attached Certification, the MDC will provide a letter to EPA within 10 days of receipt of the Approval agreeing to and accepting the conditions of the Approval. The MDC will also notify EPA and CT DEEP as to the planned start date for the rehabilitation program.

3.3 Remediation Observation Contractor Submittals

It is anticipated that a third party to be selected by the MDC, the Remediation Observation Contractor, will submit the following to EPA and CT DEEP:

- Written certification by the selected contractor indicating that they have read the Notification and the EPA Approval and that they agree to abide by the conditions of the documents;
- Written certification from the analytical laboratory selected by the Remediation Observation Contractor indicating that they have read the Notification and the EPA Approval and that they agree to abide by the conditions of the documents;
- An air monitoring plan to be implemented during the performance of soil excavations;
- A summary of the soil testing proposed in this Notification with a description of the remedial work to be performed based upon the sample results;
- A summary of the concrete testing proposed in this Notification with a description of the remedial work to be performed based upon the sample results; and
- A Remedial Action Report following the completion of the remediation as described in the Notification and further described in Section 4.2.

3.4 Remediation Contractor Submittals

The Remediation Contractor will submit the following to EPA and CT DEEP:

- Written certification indicating that they have read the Notification and the EPA Approval and that they agree to abide by the conditions of the documents; and
- A Contractor's Work Plan describing the means and methods for the abatement of PCBs, control measures to limit the spread of dust and other materials that may contain PCBs, erosion control measures, equipment decontamination procedures, and disposal or decontamination facilities for solid and aqueous wastes, respectively.

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3.5 Submittals Schedule

The following provides a schedule for the submittals described above.

- Written certifications will be submitted to EPA following selection of the contractor responsible for that scope of work and described above.
- The Remediation Contractor's Work Plan will be submitted to EPA for review and comment prior to commencing work on the project. EPA approval of the work plan will be required before the work as described in this Notification is performed.
- The Remediation Observation Contractor will submit the air monitoring plan to EPA for review and comment prior to commencing any soil excavation work. EPA approval of the air monitoring plan will be required before soil excavation as described in this Notification is performed.
- The soil and concrete reports will be submitted to EPA following completion of the sampling activities for review and comment. The remedial activities as described in these submittals will not be performed until approved by EPA.

4.0 DOCUMENTATION AND REPORTING

Remediation activities will be overseen by a third party (Remediation Observation Contractor) selected by the MDC. This third party will be familiar with the rehabilitation project and the requirements of this Notification and the EPA Approval. They will be responsible for preparing and maintaining a record of the remediation activities performed and for preparation and submittal of the final Remedial Action Report. The observation contractor will document that the project is completed in accordance with these requirements and generally accepted industry/engineering standards.

4.1 Field Documentation

The following list identifies the specific documentation and reporting requirements that will be required for this project.

- Maintaining an accounting of soil excavated, concrete demolished/transported off-site for disposal (including collecting manifests), and any other records related to off-site disposal of these materials and any other PCB wastes generated during the remediation;
- Collection of verification samples and preparation of submittals to regulatory agencies as described in this remedial plan;
- Photographic documentation of executed field activities, and other pertinent observations;
- Documenting and reporting of spills, leaks, or other discharges occurring at the site during the performance of the remediation and remedial actions taken to address these occurrences;
- Documenting and reporting of disruption/damage to utility structures;
- Documenting that erosion control and site security measures are adequately maintained throughout the project;
- Maintaining excavation documentation per excavation area; and
- Documenting decontamination of materials that have contacted PCB wastes prior to demobilization from the site.

4.2 Post-Remediation Reporting

Following completion of remediation activities, a Remedial Action Report (RAR) will be prepared to document remediation activities by the Remediation Observation Contractor. The report will describe the completed work at the site, will be submitted on the schedule required in the EPA Approval, and contain the following items and any additional information required by the EPA Approval:

- Project narrative;
- Record drawing(s) showing the vertical and horizontal limits of the soil excavations and the final grades following restoration of these areas;
- Record drawing(s) showing the extent of concrete demolition;
- Waste disposal documentation (manifests, bills-of-lading, certificates of disposal, etc.);
- Documentation of materials incorporated into the project (backfill, topsoil, etc.); and
- Photographs of remediation activities.

5.0 PROJECT SCHEDULE

Given the size and complexity of the Filtered Water Basins Rehabilitation Project, bidding and contracting is anticipated to take up to nine months to complete. In addition, because only one of the basin compartments can be taken offline at any time and that both compartments are required to be in use during high use periods (May through September), periods during which remediation can be performed are limited.

Table 4-1 presents the estimated schedule for the project including major dates for PCB-related activities. The schedule presented includes limitations on the work such as only being able to enter and rehabilitate one of the compartments at any time. A final schedule will be developed following selection of the contractor for the rehabilitation project. EPA and CT DEEP will be advised as to the start date for the PCB remediation activities and will be provided with the Contractor's schedule for remediation at that time.

Table 4-1 Project Schedule	
Task	Required Schedule
November 2016	Submittal of Remedial Action Plan
November 2016 through February 2017	EPA and CT DEEP Review, Comment and Negotiations
February 2017	EPA Approval
February 2017	Incorporate PCB Remedial Activities into Contract Documents
February through June 2017	Contract Documents Released and Bids Received
July 2017 through September 2017	Secure Contract with Selected Contractor
September 2017 through May 2018	Remediation of One Compartment and Soil Excavations
September 2018 through May 2019	Remediation of Second Compartment and Soil Excavations
August 2019	Submit Remedial Action Report

Because the goals of the remediation project are to remove building materials and soil with PCB concentrations >1 mg/kg, no recordings on the land records or inspection programs related to PCBs are anticipated post-remediation. Thus, no additional site work or reporting for PCBs are scheduled beyond the submittal of the final remediation report.

TABLE

Table 1
PCB Characterization Data
Filtered Water Basins Rehabilitation Project
MDC
Reservoir No. 6

Sample Identification	Sampling Date	Analysis Date	Total PCBs (mg/kg)	Classification	Comments
Basin 1 (East Basin)					
EJ1	3/10/2014	3/18/2014	562,000	Disposed	Expansion joint caulk - Exterior
EJ2	3/10/2014	3/18/2014	158,000	Disposed	Expansion joint caulk - Exterior
EJ3	3/10/2014	3/18/2014	425,000	Disposed	Expansion joint caulk - Exterior
C1	3/10/2014	3/18/2014	52,700	Disposed	Cork backing directly beneath caulk
C2	3/10/2014	3/18/2014	20.7	Disposed	Cork backing further beneath caulk
C3	3/10/2014	3/18/2014	2.83	Disposed	Cork backing further beneath caulk
0-G-6"	3/10/2014	3/18/2014	0.650	Unregulated	Concrete wall, 6" from expansion joint
0-G-6" D	3/10/2014	3/18/2014	<0.0212	Unregulated	Concrete wall, 6" from expansion joint and 3-3.5" deep
0-G-12"	3/10/2014	3/18/2014	0.500	Unregulated	Concrete wall, 12" from expansion joint
0-G-12" D	3/10/2014	3/18/2014	0.0313	Unregulated	Concrete wall, 12" from expansion joint and 1-1.5" deep
0-G-18"	3/10/2014	3/18/2014	0.445	Unregulated	Concrete wall, 18" from expansion joint
0-G-24"	3/10/2014	3/18/2014	0.963	Unregulated	Concrete wall, 24" from expansion joint
18-G-6"	3/11/2014	3/18/2014	0.130	Unregulated	Concrete wall, 6" from expansion joint
18-G-6" D	3/11/2014	3/18/2014	<0.0213	Unregulated	Concrete wall, 6" from expansion joint and 3-3.5" deep
18-G-12"	3/11/2014	3/18/2014	0.0362	Unregulated	Concrete wall, 12" from expansion joint
18-G-12" D	3/11/2014	3/17/2014	0.0410	Unregulated	Concrete wall, 12" from expansion joint and 1-1.5" deep
18-G-18"	3/11/2014	3/18/2014	0.0953	Unregulated	Concrete wall, 18" from expansion joint
18-G-24"	3/11/2014	3/18/2014	0.0419	Unregulated	Concrete wall, 24" from expansion joint
3/4-G-6"	3/10/2014	3/17/2014	0.280	Unregulated	Concrete floor, 6" from expansion joint
3/4-G-6" D	3/10/2014	3/18/2014	<0.021	Unregulated	Concrete floor, 6" from expansion joint and 3-3.5" deep
3/4-G-12"	3/10/2014	3/17/2014	0.179	Unregulated	Concrete floor, 12" from expansion joint
3/4-G-12" D	3/10/2016	3/18/2014	<0.0215	Unregulated	Concrete floor, 12" from expansion joint and 1-1.5" deep
3/4-G-18"	3/10/2014	3/18/2014	0.346	Unregulated	Concrete floor, 18" from expansion joint
3/4-G-24"	3/10/2014	3/18/2014	2.94	PCB RW	Concrete floor, 24" from expansion joint
7/8-G-6"	3/11/2014	3/18/2014	1.40	PCB RW	Concrete floor, 6" from expansion joint
7/8-G-6" D	3/11/2014	3/18/2014	0.027	Unregulated	Concrete floor, 6" from expansion joint and 3-3.5" deep
7/8-G-12"	3/11/2014	3/18/2014	2.77	PCB RW	Concrete floor, 12" from expansion joint
7/8-G-12" D	3/11/2014	3/18/2014	0.0951	Unregulated	Concrete floor, 12" from expansion joint and 1-1.5" deep
7/8-G-18"	3/11/2014	3/18/2014	0.679	Unregulated	Concrete floor, 18" from expansion joint
7/8-G-24"	3/11/2014	3/18/2014	2.06	PCB RW	Concrete floor, 24" from expansion joint
13/14-G-6"	3/11/2014	3/18/2014	1.80	PCB RW	Concrete floor, 6" from expansion joint
13/14-G-6" D	3/11/2014	3/18/2014	0.166	Unregulated	Concrete floor, 6" from expansion joint and 3-3.5" deep
13/14-G-12"	3/11/2014	3/18/2014	0.895	Unregulated	Concrete floor, 12" from expansion joint
13/14-G-12" D	3/11/2014	3/18/2014	0.263	Unregulated	Concrete floor, 12" from expansion joint and 1-1.5" deep
13/14-G-18"	3/11/2014	3/18/2014	1.37	PCB RW	Concrete floor, 18" from expansion joint
13/14-G-24"	3/11/2014	3/18/2014	4.13	PCB RW	Concrete floor, 24" from expansion joint
17/18-G-6"	3/11/2014	3/18/2014	1.58	PCB RW	Concrete floor, 6" from expansion joint
17/18-G-6" D	3/11/2014	3/17/2014	0.0568	Unregulated	Concrete floor, 6" from expansion joint and 3-3.5" deep
17/18-G-12"	3/11/2014	3/18/2014	21.0	PCB RW	Concrete floor, 12" from expansion joint
17/18-G-12" D	3/11/2014	3/17/2014	0.0469	Unregulated	Concrete floor, 12" from expansion joint and 1-1.5" deep
17/18-G-18"	3/11/2014	3/17/2014	0.384	Unregulated	Concrete floor, 18" from expansion joint
17/18-G-24"	3/11/2014	3/17/2014	0.694	Unregulated	Concrete floor, 24" from expansion joint
7/8-F-0"	3/11/2014	3/17/2014	0.0392	Unregulated	Concrete floor, at cork backing
7/8-F-3"	3/11/2014	3/17/2014	0.146	Unregulated	Concrete floor, 3" from cork backing
Basin 2 (West Basin)					
18-C-CK	11/22/2013	12/1/2013	197	Disposed	Cork joint material
0/1-C-CK	11/22/2013	12/1/2013	1.93	Disposed	Cork joint material
01	11/21/2013	12/1/2013	239,300	Disposed	Expansion joint caulk, internal
02	11/21/2013	12/1/2013	121,600	Disposed	Expansion joint caulk, internal
03	11/21/2013	12/1/2013	421,700	Disposed	Expansion joint caulk, internal
04	11/21/2013	12/1/2013	1,959	Disposed	Cork backing material, direct contact with caulk
05	11/21/2013	12/1/2013	13,660	Disposed	Cork backing material, direct contact with caulk
06	11/21/2013	12/1/2013	105,530	Disposed	Cork backing material, direct contact with caulk
07	11/21/2013	11/27/2013	14,200	Disposed	Cork backing material, direct contact with caulk
08	11/21/2013	11/27/2013	351	Disposed	Cork backing material, at depth beneath caulk
09	11/21/2013	11/27/2013	5.12	Disposed	Cork backing material, at depth beneath caulk

Table 1
PCB Characterization Data
Filtered Water Basins Rehabilitation Project
MDC
Reservoir No. 6

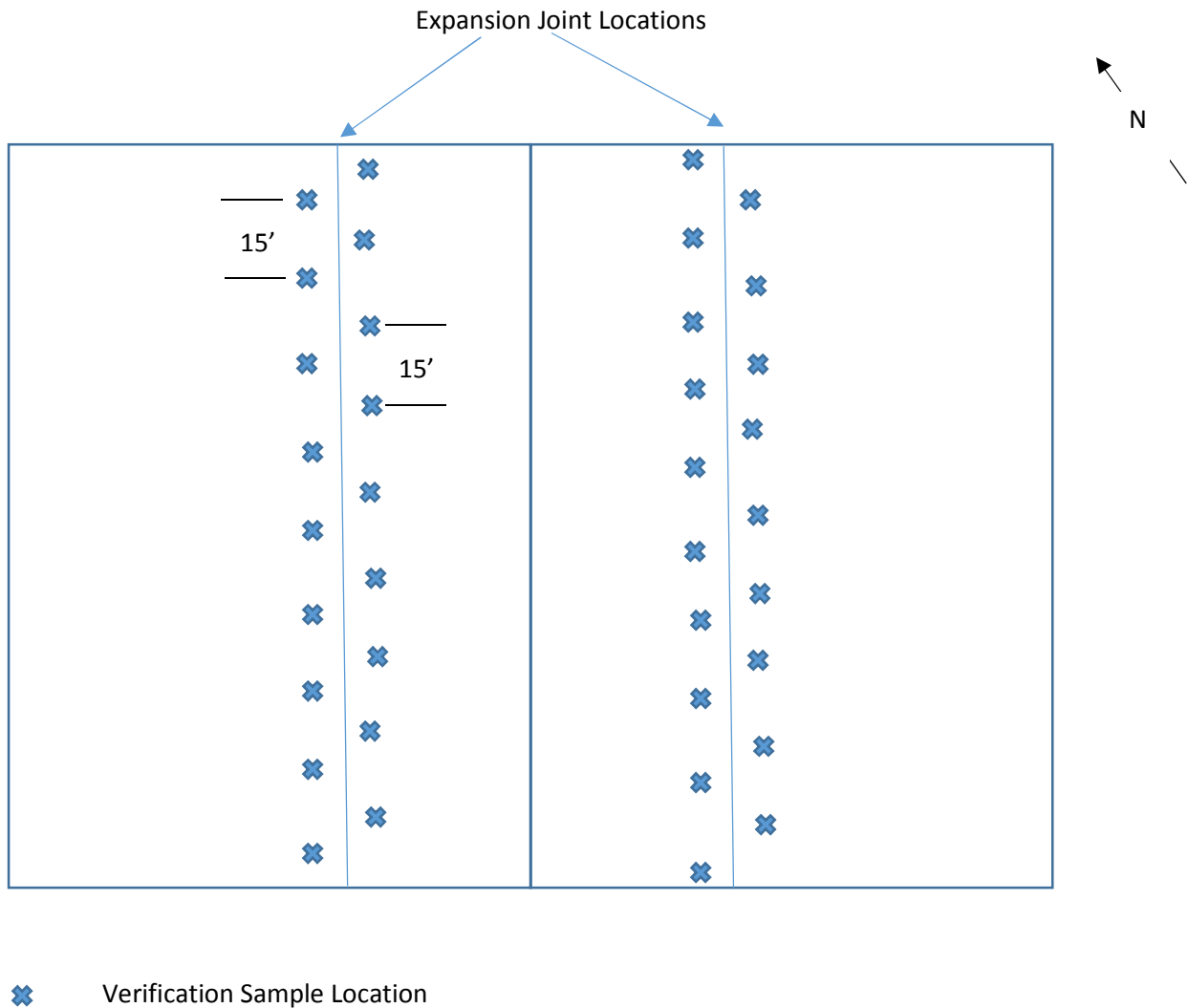
Sample Identification	Sampling Date	Analysis Date	Total PCBs (mg/kg)	Classification	Comments
Basin 2 (West Basin) Continued					
10	11/21/2013	11/27/2013	14.9	Disposed	Cork backing material, at depth beneath caulk
11	11/21/2013	11/27/2013	0.399	Disposed	Cork backing material, at depth beneath caulk
12	11/21/2013	11/27/2013	0.778	Disposed	Cork backing material, at depth beneath caulk
13	11/21/2013	11/27/2013	1.76	Disposed	Cork backing material, at depth beneath caulk
14	11/22/2013	11/27/2013	450	Disposed	Cork backing material, at depth beneath caulk
15	11/22/2013	11/27/2013	25.2	Disposed	Cork backing material, at depth beneath caulk
16	11/22/2013	11/27/2013	10.1	Disposed	Cork backing material, at depth beneath caulk
17	11/22/2013	11/27/2013	74.4	Disposed	Cork backing material, at depth beneath caulk
18	11/22/2013	11/27/2013	1,760	Disposed	Cork backing material, at depth beneath caulk
19	11/22/2013	11/27/2013	756	Disposed	Cork backing material, at depth beneath caulk
3/4-C-0"	11/21/2013	11/27/2013	354	PCB RW	Concrete floor, at expansion joint
3/4-C-3"	11/21/2013	11/26/2013	16.7	PCB RW	Concrete floor, 3" from expansion joint
3/4-C-3" D	11/22/2013	11/30/2013	20.5	PCB RW	Concrete floor, 3" from expansion joint and 2-2.5" deep
3/4-C-3" D	2/18/2014	2/20/2014	0.358	Unregulated	Concrete floor, 3" from expansion joint and 3.5-4" deep
3/4-C-6"	11/21/2013	11/26/2013	12.1	PCB RW	Concrete floor, 6" from expansion joint
3/4-C-6" D	11/22/2013	11/30/2013	3.02	PCB RW	Concrete floor, 6" from expansion joint and 2-2.5" deep
3/4-C-9"	11/21/2013	11/26/2013	5.70	PCB RW	Concrete floor, 9" from expansion joint
3/4-C-12"	11/21/2013	11/26/2013	4.39	PCB RW	Concrete floor, 12" from expansion joint
3/4-C-14"	2/18/2014	2/20/2014	24.7	PCB RW	Concrete floor, 14" from expansion joint
3/4-C-16"	2/18/2014	2/20/2014	13.7	PCB RW	Concrete floor, 16" from expansion joint
0-C-0"	11/21/2013	11/26/2013	3.98	PCB RW	Concrete wall, at expansion joint
0-C-3"	11/21/2013	11/26/2013	1.63	PCB RW	Concrete wall, 3" from expansion joint
0-C-3" D	11/22/2013	12/1/2013	1.35	PCB RW	Concrete wall, 3" from expansion joint and 2-2.5" deep
0-C-3" D	2/18/2014	2/20/2014	0.229	Unregulated	Concrete wall, 3" from expansion joint and 3.5-4" deep
0-C-6"	11/21/2013	11/26/2013	1.41	PCB RW	Concrete wall, 6" from expansion joint
0-C-6" D	11/22/2013	21/1/13	0.744	Unregulated	Concrete wall, 6" from expansion joint and 3-3.5" deep
0-C-9"	11/21/2013	11/26/2013	0.606	Unregulated	Concrete wall, 9" from expansion joint
0-C-12"	11/21/2013	11/26/2013	1.17	PCB RW	Concrete wall, 12" from expansion joint
0-C-14"	2/18/2014	2/20/2014	2.11	PCB RW	Concrete wall, 14" from expansion joint
0-C-16"	2/18/2014	2/20/2014	1.58	PCB RW	Concrete wall, 16" from expansion joint
18-C-0"	11/21/2013	11/27/2013	20.5	PCB RW	Concrete wall, at expansion joint
18-C-3"	11/21/2013	11/26/2013	0.286	Unregulated	Concrete wall, 3" from expansion joint
18-C-6"	11/21/2013	11/26/2013	<0.0754	Unregulated	Concrete wall, 6" from expansion joint
18-C-9"	11/21/2013	11/26/2013	0.227	Unregulated	Concrete wall, 9" from expansion joint
18-C-12"	11/21/2013	11/26/2013	<0.073	Unregulated	Concrete wall, 12" from expansion joint
16/17-C-0"	11/21/2013	11/27/2013	33.5	PCB RW	Concrete floor, at expansion joint
16/17-C-3"	11/21/2013	11/26/2013	1.77	PCB RW	Concrete floor, 3" from expansion joint
16/17-C-6"	11/21/2013	11/26/2013	0.77	Unregulated	Concrete floor, 6" from expansion joint
16/17-C-9"	11/21/2013	11/26/2013	0.306	Unregulated	Concrete floor, 9" from expansion joint
16/17-C-12"	11/21/2013	11/26/2013	0.308	Unregulated	Concrete floor, 12" from expansion joint
16-C-0"	11/21/2013	11/27/2013	0.202	Unregulated	Concrete column, at cork backing
16-C-3"	11/21/2013	11/27/2013	0.0863	Unregulated	Concrete column, 3" from cork backing
16-C-6"	11/21/2013	11/27/2013	<0.0725	Unregulated	Concrete column, 6" from cork backing
16-C-9"	11/21/2013	11/27/2013	<0.0604	Unregulated	Concrete column, 9" from cork backing
16-C-12"	11/21/2013	11/27/2013	0.687	Unregulated	Concrete column, 12" from cork backing
5-C-0"	11/22/2013	11/27/2013	0.132	Unregulated	Concrete column, at cork backing
5-C-3"	11/22/2013	11/27/2013	0.161	Unregulated	Concrete column, 3" from cork backing
5-C-3" D	11/22/2013	11/27/2013	0.0926	Unregulated	Concrete column, 3" from cork backing and 2-2.5" deep
5-C-6"	11/22/2013	11/27/2013	<0.058	Unregulated	Concrete column, 6" from cork backing
5-C-6" D	11/22/2013	11/27/2013	0.222	Unregulated	Concrete column, 6" from cork backing and 2-2.5" deep
5-C-9"	11/22/2013	11/27/2013	0.163	Unregulated	Concrete column, 9" from cork backing
5-C-12"	11/22/2013	11/27/2013	0.826	Unregulated	Concrete column, 12" from cork backing

Table 1
PCB Characterization Data
Filtered Water Basins Rehabilitation Project
MDC
Reservoir No. 6

Sample Identification	Sampling Date	Analysis Date	Total PCBs (mg/kg)	Classification	Comments
Basin 2 (West Basin) Continued					
3/4-I-0"	11/22/2013	11/27/2013	0.412	Unregulated	Concrete floor, at cork backing
3/4-I-3"	11/22/2013	11/27/2013	0.289	Unregulated	Concrete floor, 3" from cork backing
3/4-I-6"	11/22/2013	11/27/2013	0.463	Unregulated	Concrete floor, 6" from cork backing
9-J-0"	11/22/2013	11/27/2013	<0.742	Unregulated	Concrete wall, at cork backing
9-J-3"	11/22/2013	11/27/2013	0.144	Unregulated	Concrete wall, 3" from cork backing
9-J-3" D	11/22/2013	11/27/2013	<0.0599	Unregulated	Concrete wall, 3" from cork backing and 2-2.5" deep
9-J-6"	11/22/2013	11/27/2013	0.104	Unregulated	Concrete wall, 6" from cork backing
9-J-6" D	11/22/2013	11/27/2013	<0.0674	Unregulated	Concrete wall, 6" from cork backing and 2-2.5" deep
7/8-W/A-0"	11/22/2013	11/27/2013	0.572	Unregulated	Concrete floor, at cork backing
7/8-W/A-3"	11/22/2013	11/27/2013	0.726	Unregulated	Concrete floor, 3" from cork backing
7/8-W/A-6"	11/22/2013	11/30/2013	0.656	Unregulated	Concrete floor, 6" from cork backing
0/1-C-0"	11/22/2013	12/1/2013	0.0867	Unregulated	Concrete ceiling, at cork backing
0/1-C-3"	11/22/2013	12/1/2013	0.0792	Unregulated	Concrete ceiling, 3" from cork backing
0/1-C-6"	11/22/2013	12/1/2013	0.185	Unregulated	Concrete ceiling, 6" from cork backing
0/1-C-9"	11/22/2013	12/1/2013	0.0918	Unregulated	Concrete ceiling, 9" from cork backing
0/1-C-12"	11/22/2013	12/1/2013	0.171	Unregulated	Concrete ceiling, 12" from cork backing
Exterior Basin 1 (East Basin)					
01	12/5/2013	12/9/2013	0.127	Unregulated	Concrete, 7" from expansion joint
02	12/5/2013	12/9/2013	0.140	Unregulated	Concrete, 10" from expansion joint
03	12/5/2013	12/9/2013	0.0327	Unregulated	Concrete, 5" from expansion joint and 2.5-3" deep
04	12/5/2013	12/9/2013	<0.062	Unregulated	Concrete, 10" from expansion joint and 2.5-3" deep
A-1.5"	4/28/2014	-	4,360	PCB RW	Concrete, 1.5" from expansion joint
A-3"	4/28/2014	-	110	PCB RW	Concrete, 3" from expansion joint
A-5"	4/28/2014	-	15.6	PCB RW	Concrete, 5" from expansion joint
A-7"	4/28/2014	-	10.8	PCB RW	Concrete, 7" from expansion joint
A-10"	4/28/2014	-	11.2	PCB RW	Concrete, 10" from expansion joint
B-3"	4/28/2014	-	0.946	Unregulated	Concrete, 3" from expansion joint
B-3" D	4/28/2014	-	4.67	PCB RW	Concrete, 3" from expansion joint and 2.5-3" deep
B-5"	4/29/2014	-	0.946	Unregulated	Concrete, 5" from expansion joint
B-7"	4/30/2014	-	0.600	Unregulated	Concrete, 7" from expansion joint
B-10"	5/1/2014	-	1.33	PCB RW	Concrete, 10" from expansion joint
D-1.5"	5/2/2014	-	467	PCB RW	Concrete, 1.5" from expansion joint
D-3"	5/3/2014	-	52.9	PCB RW	Concrete, 3" from expansion joint
D-3" D	5/4/2014	-	2.7	PCB RW	Concrete, 3" from expansion joint and 2.5-3" deep
D-5"	5/5/2014	-	41.1	PCB RW	Concrete, 5" from expansion joint
D-7"	5/6/2014	-	22.6	PCB RW	Concrete, 7" from expansion joint
D-10"	5/7/2014	-	23.9	PCB RW	Concrete, 10" from expansion joint
05	12/5/2013	12/9/2013	0.0347	Unregulated	Soil, 10" deep and above expansion joint and pea stone
06	12/5/2013	12/9/2013	0.0247	Unregulated	Soil, 15" deep and above expansion joint and pea stone
07	12/5/2013	12/9/2013	0.121	Unregulated	Soil, 10" deep and above expansion joint and pea stone
Exterior Basin 2 (West Basin)					
08	12/5/2013	12/10/2013	11.0	PCB RW	Soil, 11" deep and above expansion joint and pea stone
09	12/5/2013	12/9/2013	1.83	PCB RW	Soil, 16" deep and above expansion joint and pea stone
10	12/5/2013	12/9/2013	1.94	PCB RW	Soil, 18" deep and above expansion joint and pea stone
Notes: Materials classified as disposed have been removed from the basins. "3/4-G" - Sample IDs for interior concrete sampling start with column lines (e.g., 3/4 being sampled between column lines 3 and 4 and along column line G). PCB Bulk Product Waste materials have been removed so remaining materials with PCBs >1 mg/kg are classified as PCB Remediation Wastes (PCB RW). - In date analyzed column indicates that analytical data reports are not available and that data were taken from data tables prepared by previous consultant.					

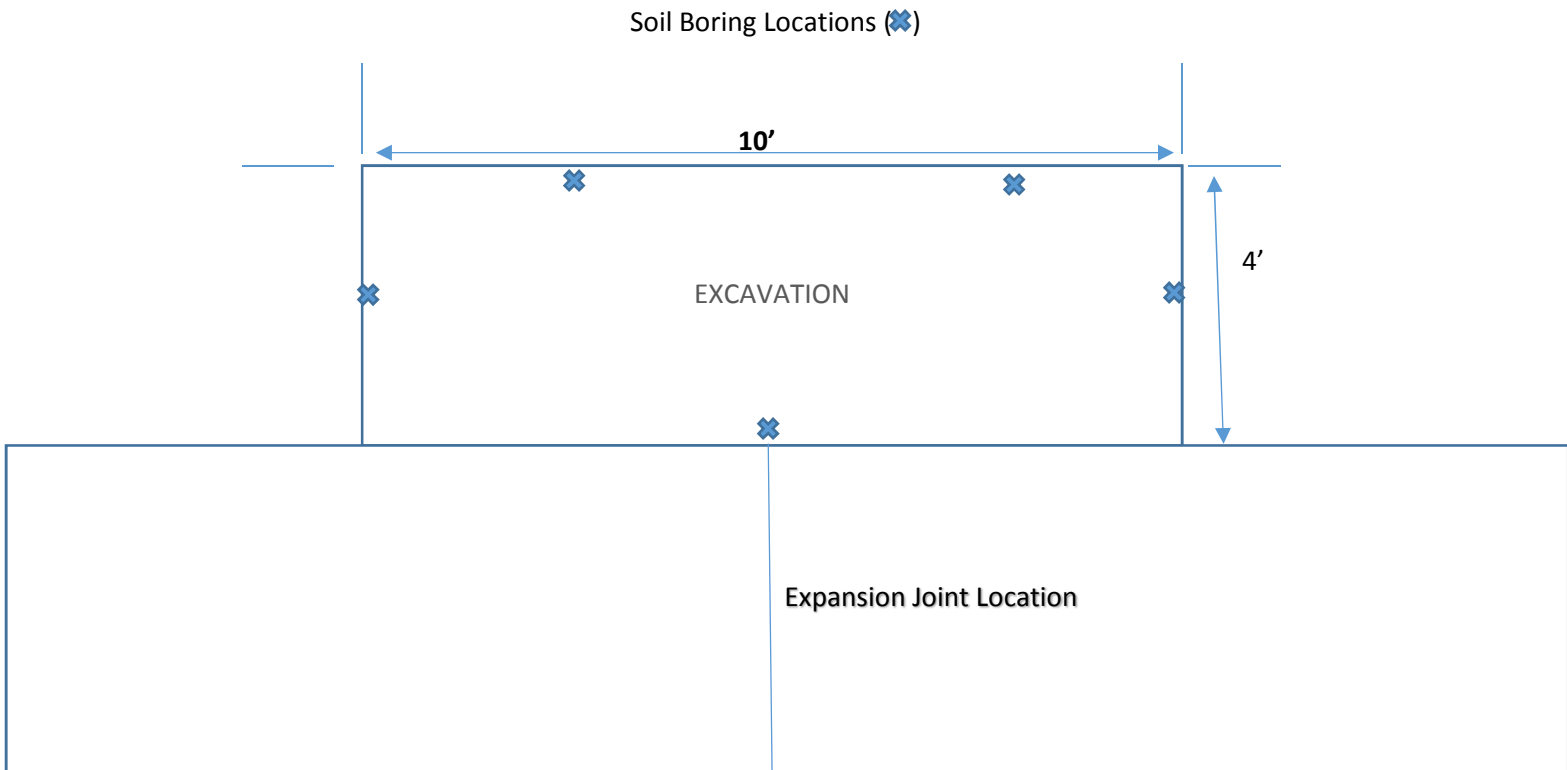
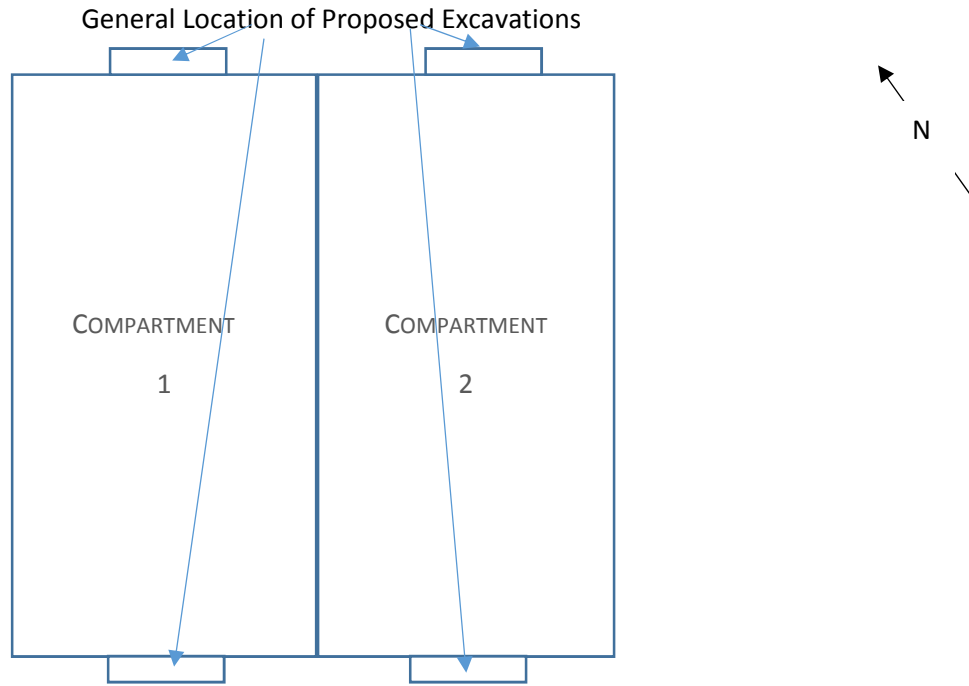
FIGURES

Figure 1
Concrete Sampling Schematic
Reservoir No. 6 Filtered Water Basin Rehabilitation Project

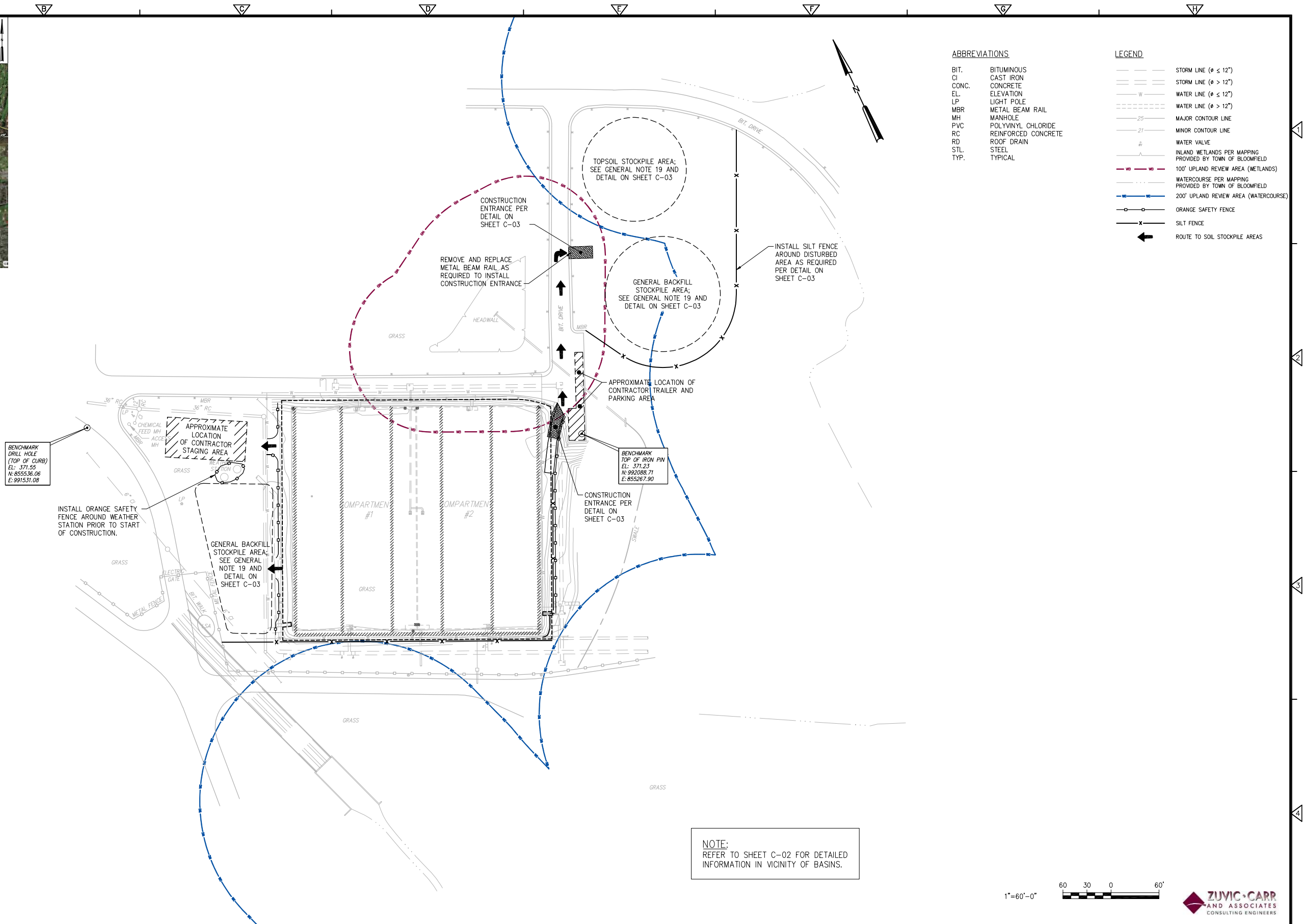


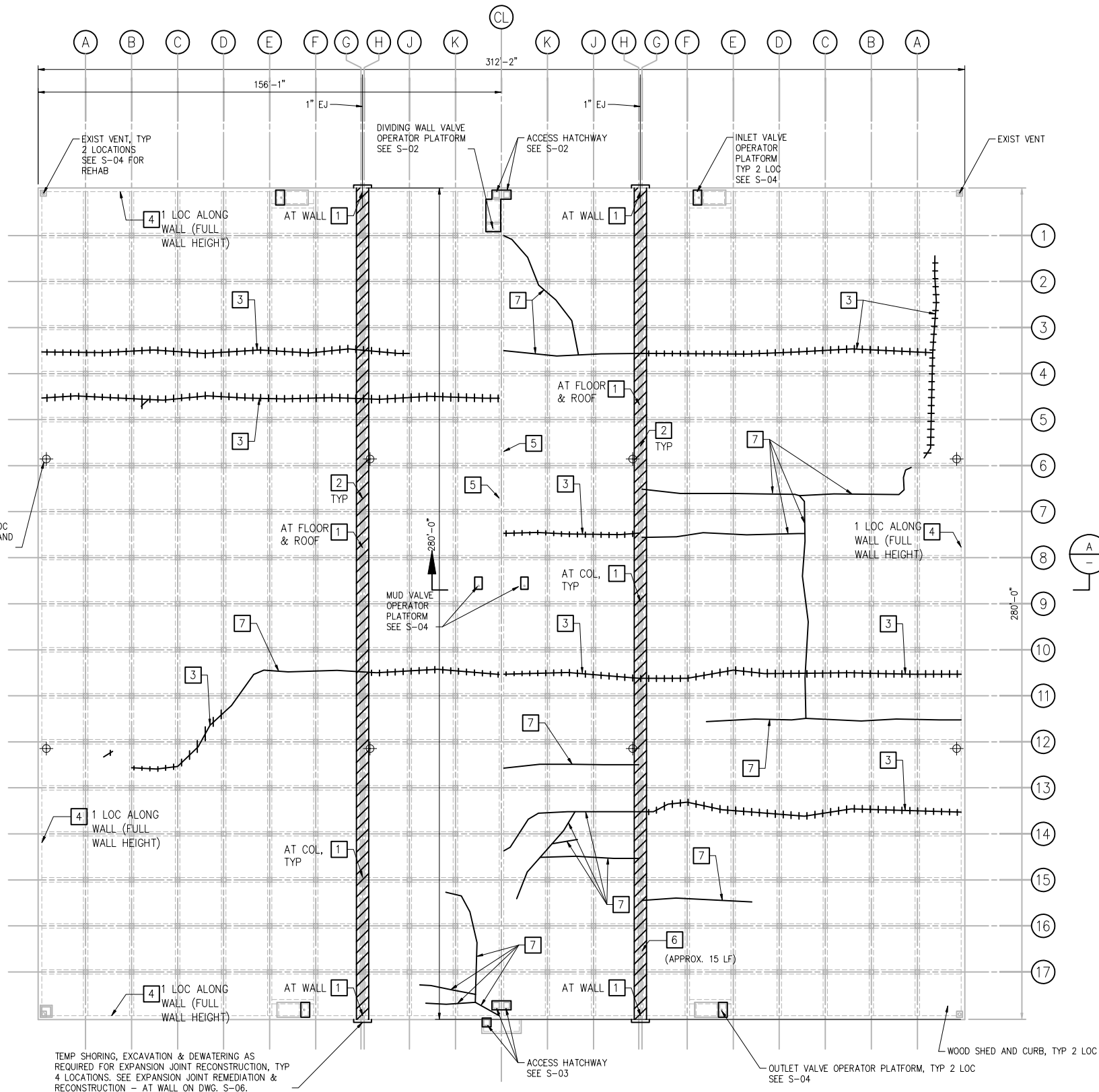
Note: The same sampling frequency and determination of verification sample locations is proposed for both the basin interior and exterior. Sample locations may need to be adjusted based upon the presence of obstructions.

Figure 2
Basin Sidewall Soil Excavation Sampling Locations
Reservoir No. 6 Filtered Water Basin Rehabilitation Project



APPENDIX A
SELECTED CONTRACT DRAWINGS



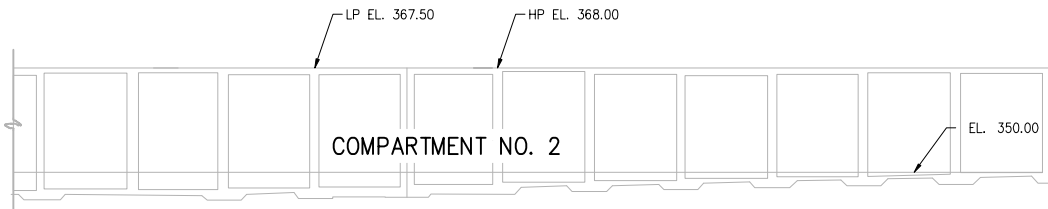


CONCRETE REPAIR LEGEND

- 1 EXPANSION JOINT RECONSTRUCTION - TOP SLAB, BOTTOM SLAB & WALLS - SEE DWG. S-06.
- 2 WATERPROOF MEMBRANE PATCH AT EJ
- 3 +---+---+---+---+ REPLACEMENT OF EXISTING REPAIR MATERIAL (FLOOR SLAB)
- 4 REPLACEMENT OF EXISTING REPAIR MATERIAL IN WALL
- 5 WATERPROOF INJECTION GROUT - EXISTENCE/LOCATION TO BE CONFIRMED DURING INSPECTION
- 6 SPALL REPAIR - ROOF BEAMS (OVERHEAD)
- 7 - - - - - EXISTING NON-LEAKING CRACK - NO REPAIR REQUIRED.

NOTES:

1. INFORMATION SHOWN REGARDING THE EXISTING STRUCTURE IS TAKEN FROM DRAWING NOS. 526.1-34, 526.1-35M 526.1-37, AND 526.1-49, DATED FEBRUARY 1968, FROM CONTRACT IDENTIFIED IN NOTE X-1 ON S-07.
2. INFORMATION SHOWN REGARDING THE REQUIRED REPAIRS OF THE STRUCTURE IS TAKEN FROM A REPORT TITLED "RESERVOIR 6 WATER TREATMENT FACILITY FINISHED WATER BASINS CLEANING, INSPECTIONS, AND REPAIRS" DATED JULY 2012 BY TIGHE & BOND.
3. ALL INFORMATION SHOWN SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO STARTING CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER FOR EVALUATION.
4. FOR TANK DRAINING, CLEANING AND FILLING REQUIREMENTS, SEE SPECIFICATION 01130.
5. UPON COMPLETION OF THE DRAINING AND CLEANING EACH COMPARTMENT THE CONTRACTOR SHALL SURVEY THE CONDITION OF THE CONCRETE AND DEVELOP A REPAIR PLAN OUTLINING ALL REPAIRS INTENDED TO BE MADE, AND SHOWING ALL REPAIRS ON SKETCHES. THIS PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND CONFIRMATION. THE CONTRACTOR SHALL PROVIDE ACCESS FOR THE ENGINEER TO ENTER THE BASIN(S) FOR VISUAL CONFIRMATION OF THE INTENDED REPAIRS. BASED ON THIS VISUAL SURVEY THE ENGINEER MAY ADD TO OR DELETE FROM THE PROPOSED REPAIRS.
6. ALL EXPANSION JOINTS IN THE WALLS, AND BASE AND ROOF SLABS SHALL BE RECONSTRUCTED ACCORDING TO THE DETAILS SHOWN ON S-05.
7. CRACKED, SPALLED AND/OR ERODED CONCRETE SHALL BE REPAIRED AS PER THE DETAILS ON S-05.
8. ESTIMATED REPAIR QUANTITIES FOR BIDDING PURPOSES ARE PROVIDED ON S-05. ACTUAL QUANTITIES WILL VARY FROM THE QUANTITIES INDICATED. PAYMENT FOR REPAIRS WILL BE BASED ON THE ACTUAL QUANTITIES OF REPAIRS MADE.
9. CONTRACTOR SHALL LOCATE SLAB REINFORCEMENT PRIOR TO CORE DRILLING FOR NEW VENTS. NO REINFORCEMENT SHALL BE CUT DURING CORING OPERATION.
10. CONTRACTOR IS ADVISED THAT THE EXISTING EXPANSION JOINT CAULKING CONTAINS REGULATED LEVELS (>50 PPM) OF PCBs AND THAT THE CAULKING, CONCRETE AND SOIL IN CONTACT WITH THE CAULKING SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH SECTION 02084 AS PART OF THE LUMP SUM BID ITEM NO. 1. REFER TO SECTION 02084 FOR ADDITIONAL DETAILS REGARDING THE REMOVAL AND DISPOSAL OF PCB CONTAINING MATERIALS.
11. SEE DWG S-07 FOR ROOF LOADING RESTRICTIONS.
12. BASINS CONTAIN TREATED POTABLE WATER READY FOR INTRODUCTION INTO THE DRINKING WATER SYSTEM. ALL MATERIALS THAT WILL BE IN DIRECT CONTACT WITH STORED WATER SHALL MEET NSF 61 REQUIREMENTS.



EXISTING CONDITIONS
SECTION A-A
NOT TO SCALE

COMPARTMENT NO. 1

COMPARTMENT NO. 2

NOTE: TOP PLAN SHOWN. CRACKS INDICATED ARE IN BOTTOM SLAB OF TANK

1	4/16	DRK	SB	ISSUED FOR BID	CADD FILE No: 90102-001-S01.DWG
REV.	DATE	DRWN	CHKD	REMARKS	DESIGNED BY: DRK
					DRAWN BY: DRK
					SHEET CHK'D BY: SB
					CROSS CHK'D BY: BL
					APPROVED BY: BL
					DATE: APRIL 2016



THE METROPOLITAN DISTRICT
HARTFORD, CONNECTICUT
**RESERVOIR #6 WATER TREATMENT FACILITY
REHABILITATION OF FILTERED WATER
BASIN**

STRUCTURAL
**TANK CONCRETE REPAIRS
PLAN AND PROFILE**

PROJECT No. 90102-001
DRAWING No. S-01
ACCESSION No. 0930-

PLOT DATE: 4/12/2016 11:34 AM BY: EKOROT

File = C:\CAD_Buzzsaw\90102-001 MDC Reservoir\Drawings\STRU\90102-001-S01 Saved by ekorot Save date = 4/8/2016 8:49 AM
XREF = C:\CAD_Buzzsaw\90102-001-IBLC\BASE\MOORE38501_BASE\MOORE38501

APPENDIX B
WASTE MANIFESTS

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number 40CFR PART 761	2. Page 1 of 1	3. Emergency Response Phone 1 800 486-7746	4. Manifest Tracking Number 013298027 JJK	
5. Generator's Name and Mailing Address THE METROPOLITAN DISTRICT 555 MAIN STREET HARTFORD CT 06103			Generator's Site Address (if different than mailing address) THE METROPOLITAN DISTRICT / RESERVOIR # 6 2900 ALBANY AVENUE & ROUTE 44 WEST HARTFORD CT 06117			
Generator's Phone: 860 279-7359						
6. Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.			U.S. EPA ID Number CTD018811902			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address WAYNE DISPOSAL INC. SITE #2 LANDFILL 49350 NORTH 134 SERVICE DRIVE BELLEVILLE MI 48111			U.S. EPA ID Number MID048000033			
Facility's Phone: 800 692-5489						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No. Type			
	X	1. RG UN3482 WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, PGII	001 CM	10000	K	CR01 PCB9
		2.				
		3.				
		4.				
14. Special Handling Instructions and Additional Information 1) ERG # 171 PROFILE # F140127ADI PCB CAULKING O.S.D. 02/08/2014 CONFIRMATION # 516311 ON 08/07/2014 @ 04:34 AM ESI JOB # 2013-1052 ESI PO # 58548 CAN# 118						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name Bryan G. Goyert			Signature 		Month Day Year 8 5 14	
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____					
	17. Transporter Acknowledgment of Receipt of Materials					
TRANSPORTER	Transporter 1 Printed/Typed Name T. Roberts			Signature 		Month Day Year 8 5 14
	Transporter 2 Printed/Typed Name T. Roberts			Signature 		Month Day Year 8 6 14
DESIGNATED FACILITY	18. Discrepancy					
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection ACTUAL WEIGHT 8,927 Lb. cl. REV TIM ROYERMAN of ESI cl. CD-8.8.14 Manifest Reference Number: _____					
	18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____					
	Facility's Phone: _____					
	18c. Signature of Alternate Facility (or Generator) _____					Month Day Year 8 6 14
19. Hazardous Waste Report/Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. 10		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name TIMOTHY POWERS			Signature 		Month Day Year 8 6 14	

CERTIFICATE OF DISPOSAL



FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solvent
and specified on Manifest # 013298427 1/14, Line Item 1 has been landfilled on
Aug 7, 2007 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.


(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111

Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: 

THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number 40CFR PART 781	2. Page 1 of 1	3. Emergency Response Phone 1 800 486-7745	4. Manifest Tracking Number 012781466 JJK		
5. Generator's Name and Mailing Address THE METROPOLITAN DISTRICT 555 MAIN STREET HARTFORD CT 06103				Generator's Site Address (if different than mailing address) THE METROPOLITAN DISTRICT / RESERVOIR #8 2900 ALBANY AVENUE & ROUTE 44 WEST HARTFORD CT 06117			
6. Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.				U.S. EPA ID Number CTD018811802			
7. Transporter 2 Company Name Same as above				U.S. EPA ID Number			
8. Designated Facility Name and Site Address WAYNE DISPOSAL INC. - SITE #2 LANDFILL 49350 NORTH 194 SERVICE DRIVE BELLEVILLE MI 48111				U.S. EPA ID Number MI D048090833			
9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity	12. Unit Wt./Vol.
				No.	Type		
1. 30 UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLIDS, 9, PGII.				001	CM	10000	K
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information 1) ERG #171 PROFILE # F140127WDI FILTER SAND O.S.D. 08/06/2014 CONFIRMATION # 514004 ON 07/28/2014 @ 8:50 AM				ESI JOB # 2013-1052 ESI PO # 59530 DAN # 058			
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name JAMES E. MERRILL				Signature <i>[Signature]</i>		Month Day Year 10/25/14	
16. International Shipments: <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.				Port of entry/exit: Date leaving U.S.:			
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Joseph A. Roberts				Signature <i>[Signature]</i>		Month Day Year 7/25/14	
Transporter 2 Printed/Typed Name Lyle A. Smith				Signature <i>[Signature]</i>		Month Day Year 7/27/14	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
actual weight 8,445 k ck per Jm MERRILL'S & ESI ck-CD-7.28.14							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)				Month Day Year			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. 015		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Dan St. Huer				Signature <i>[Signature]</i>		Month Day Year 7/23/14	

CERTIFICATE OF DISPOSAL



FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as 103 S. 1
and specified on Manifest # 012781466 111, Line Item 1 has been landfilled on
01/28, 2017 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111

Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: me wh

THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number 40CFR PART 761		2. Page 1 of 2x		3. Emergency Response Phone 1 800 486-7745		4. Manifest Tracking Number 012781426 JJK		
		5. Generator's Name and Mailing Address THE METROPOLITAN DISTRICT 555 MAIN STREET HARTFORD CT 06103		Generator's Site Address (if different than mailing address) THE METROPOLITAN DISTRICT / RESERVOIR #8 2900 ALBANY AVENUE & ROUTE 44 WEST HARTFORD CT 06117						
6. Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.		U.S. EPA ID Number CTD018811802								
7. Transporter 2 Company Name Environmental Services		U.S. EPA ID Number CTDC18811802								
8. Designated Facility Name and Site Address SPRING GROVE RESOURCE RECOVERY, INC. 4879 SPRING GROVE AVENUE CINCINNATI OH 45232		U.S. EPA ID Number OH D000818829								
Facility's Phone: 513 881-8242										
GENERATOR	9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
						No.	Type			
	X	1. RQ UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLIDS, 9, PGII.				003	DM	00818	K	CR01
14. Special Handling Instructions and Additional Information URG #171 PROFILE #CH724531 1 FILTER SAND O.S.D. 07/11/2014. UNDELIVERABLE SLUDGE INTO BRAINTREE RETURN ON MANIFEST # 007518388FLE on 6/14/2014 Manifest # 007518388FLE Drum # 1052-01 to 1052-03										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offeror's Printed/Typed Name JAMES F. MEISCHANS Agent for Environmental Services										
Signature <i>[Signature]</i> Month Day Year 07/15/14										
INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
	Transporter signature (for exports only): _____									
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials									
	Transporter 1 Printed/Typed Name Irvin, Andrew					Signature <i>[Signature]</i> Month Day Year 07/15/14				
	Transporter 2 Printed/Typed Name Michael Souza					Signature <i>[Signature]</i> Month Day Year 08/15/14				
DESIGNATED FACILITY	18. Discrepancy									
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
	Manifest Reference Number: _____									
	18b. Alternate Facility (or Generator) U.S. EPA ID Number _____									
	Facility's Phone: _____									
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____										
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. 1111 2. 3. 4.										
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name Michael Souza Signature <i>[Signature]</i> Month Day Year 08/15/14										

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number 40CFR PART 701	2. Page 1 of 1	3. Emergency Response Phone 1 800 438-7745	4. Manifest Tracking Number 013298019 JJK			
5. Generator's Name and Mailing Address THE METROPOLITAN DISTRICT 555 MAIN STREET HARTFORD CT 06103 Generator's Phone: 860 278-7850			Generator's Site Address (if different than mailing address) THE METROPOLITAN DISTRICT / RESERVOIR #8 2000 ALBANY AVENUE & ROUTE 44 WEST HARTFORD CT 06117					
6. Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.			U.S. EPA ID Number CTD018811802					
7. Transporter 2 Company Name			U.S. EPA ID Number					
8. Designated Facility Name and Site Address WAYNE DISPOSAL INC. - SITE #2 LANDFILL 40350 NORTH 194 SERVICE DRIVE BELLEVILLE MI 48111 Facility's Phone: 248 592-5485			U.S. EPA ID Number M10018010033					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
			No.	Type				
	1. PG UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLIDS, 9, PGII		001	CM	10000	K	CR01 PCB1	
	2.							
	3.							
4.								
14. Special Handling Instructions and Additional Information DERG # 171, PROFILE # F149126WD1, FILTER SAND O.S.D. 06/09/2014 CONFIRMATION # 515767 ON 07/04/2014 @ 04:40 AM ESI JOB # 2013-1052 ESI PO # 54543 C9A1067								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Officer's Printed/Typed Name Brian Gregory			Signature [Signature]		Month Day Year 8/1/14			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Transporter signature (for exports only):			Port of entry/exit: Date leaving U.S.:					
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Lyle A Smith			Signature [Signature]		Month Day Year 8/1/14			
Transporter 2 Printed/Typed Name			Signature		Month Day Year			
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
Manifest Reference Number:								
18b. Alternate Facility (or Generator) U.S. EPA ID Number								
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator) Month Day Year								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. PCB		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Mark Welsky			Signature [Signature]		Month Day Year 8/1/14			



FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB SLD
and specified on Manifest # 013298019 JJK, Line Item 1 has been landfilled on
Aug 4, 2014 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

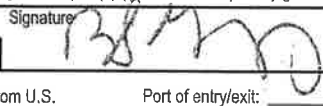
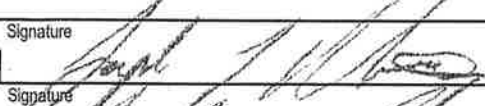


(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: [Signature]

THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number 40CFR PART 701	2. Page 1 of 1	3. Emergency Response Phone 1 800 426-7745	4. Manifest Tracking Number 013298017 JJK		
5. Generator's Name and Mailing Address THE METROPOLITAN DISTRICT 555 MAIN STREET HARTFORD CT 06103				Generator's Site Address (if different than mailing address) THE METROPOLITAN DISTRICT / RESERVOIR #8 2900 ALBANY AVENUE & ROUTE 44 WEST HARTFORD CT 06117			
Generator's Phone: 860 278-7880				U.S. EPA ID Number CTD018811802			
6. Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.				U.S. EPA ID Number			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address WAYNE DISPOSAL INC. - SITE #2 LANDFILL 49350 NORTH 194 SERVICE DRIVE BELLEVILLE MI 48111				U.S. EPA ID Number MI D048090633			
Facility's Phone: 800 592-5489							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	1. RQ UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLIDS, 9, PGII	001	CM	10000	K	CR01 PCB1
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information 1)ERG #171 PROFILE #F149127WMI FILTER SAND O.S.D. 08/09/2014 CONFIRMATION # S15757 ON 08/04/2014 @ 09:20 AM							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name Brian Gregory				Signature 		Month Day Year 8 1 14	
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials						
TRANSPORTER	Transporter 1 Printed/Typed Name Joseph T Roberts				Signature 		Month Day Year 8 1 14
	Transporter 2 Printed/Typed Name Joseph T Roberts				Signature 		Month Day Year 8 3 14
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____						
Facility's Phone: _____						18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. PCB		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Mike White				Signature 		Month Day Year 8 9 14	

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solids
and specified on Manifest # 013Z98017JJC, Line Item 1 has been landfilled on
Aug 4, 2014 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111

Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALIFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: [Signature]



THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number 40CFR PART 781	2. Page 1 of 1	3. Emergency Response Phone 1 800 486-7745	4. Manifest Tracking Number 012781431 JJK			
5. Generator's Name and Mailing Address THE METROPOLITAN DISTRICT 555 MAIN STREET HARTFORD CT 06103 Generator's Phone: 860 278-7850			Generator's Site Address (if different than mailing address) THE METROPOLITAN DISTRICT / RESERVOIR #8 2900 ALBANY AVENUE & ROUTE 44 WEST HARTFORD CT 06117					
6. Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.			U.S. EPA ID Number CTD018811802					
7. Transporter 2 Company Name			U.S. EPA ID Number					
8. Designated Facility Name and Site Address WAYNE DISPOSAL INC. - SITE #2 LANDFILL 49350 NORTH 194 SERVICE DRIVE BELLEVILLE MI 48111 Facility's Phone: 800 592-5489			U.S. EPA ID Number MID048090833					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
			No.	Type				
	1. RO UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLIDS, 9, PGII.		001	CM	10000	K	CR01 PCB1	
	2.							
	3.							
4.								
14. Special Handling Instructions and Additional Information MERG #171 PROFILE #F149127WD1 FILTER SAND O.S.D. 08/08/2014 CONFIRMATION #512482 ON 07/22/2014 @ 09:00 AM ESI JOB # 2013-1052 ESI PO # 59399 CAN# 030								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offor's Printed/Typed Name Brian Gregory			Signature [Signature]		Month Day Year 7 18 14			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Joseph J. Roberts			Signature [Signature]		Month Day Year 7 18 14			
Transporter 2 Printed/Typed Name Joseph J. Roberts			Signature [Signature]		Month Day Year 7 21 14			
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Actual weight 12,236K CL per Jim Mayhans of ESI Manifest Reference Number: OK-CD 7-25-14								
18b. Alternate Facility (or Generator) U.S. EPA ID Number								
Facility's Phone: _____								
18c. Signature of Alternate Facility (or Generator) Month Day Year								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. RCN		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Zack Listman			Signature [Signature]		Month Day Year 07 23 14			

This certificate is to verify the wastes identified as PCB S.W.
and specified on Manifest # 012781931111, Line Item 1 has been landfilled on
July 22, 2019 in accordance with all local, state and federal regulations by:

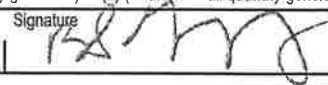



Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature:

THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number 40CFR PART 781	2. Page 1 of 1	3. Emergency Response Phone 1 800 486-7745	4. Manifest Tracking Number 012781401 JJK			
5. Generator's Name and Mailing Address THE METROPOLITAN DISTRICT 555 MAIN STREET HARTFORD CT 06103			Generator's Site Address (if different than mailing address) THE METROPOLITAN DISTRICT / RESERVOIR #6 2300 ALBANY AVENUE & ROUTE 44 WEST HARTFORD CT 06117					
Generator's Phone: 860 278-7850								
6. Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.			U.S. EPA ID Number CTD018811802					
7. Transporter 2 Company Name			U.S. EPA ID Number					
8. Designated Facility Name and Site Address WAYNE DISPOSAL INC. - SITE #2 LANDFILL 49350 NORTH 191 SERVICE DRIVE BELLEVILLE, MI 48111			U.S. EPA ID Number MID048090633					
Facility's Phone: 800-592-5489			MAD053452807					
GENERATOR	9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
			No.	Type				
	X	1. RQ UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLIDS, 9, PGII.	001	CM	9400	K	CR01 PCB1	
14. Special Handling Instructions and Additional Information 1. ERG # 171 PROFILE # F140127WD1 FILTER SAND O.S.D. 06/19/2014 CONFIRMATION # 511067 ON 07/14/2014 @ 7:20 AM								
ESI JOB # 2013-1052 ESI PO # 59284 CAN#055								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Officer's Printed/Typed Name Brian Gregory			Signature 			Month Day Year 7 11 14		
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
	Transporter signature (for exports only): _____							
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials							
	Transporter 1 Printed/Typed Name Joseph J. Roberts			Signature 			Month Day Year 7 11 14	
	Transporter 2 Printed/Typed Name Joseph J. Roberts			Signature 			Month Day Year 7 13 14	
DESIGNATED FACILITY	18. Discrepancy							
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
	Manifest Reference Number: _____							
	18b. Alternate Facility (or Generator)					U.S. EPA ID Number		
	Facility's Phone: _____							
	18c. Signature of Alternate Facility (or Generator)					Month Day Year		
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
	1. PLB	2.	3.	4.				
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
	Printed/Typed Name Don Shilman			Signature 			Month Day Year 7 14 14	


FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB S.W.
and specified on Manifest # 012781701 JJK, Line Item 1 has been landfilled on
July 19, 2019 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: 



THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number 400FRPART701	2. Page 1 of 1	3. Emergency Response Phone 1 800 438-7745	4. Manifest Tracking Number 013298006 JJK			
5. Generator's Name and Mailing Address THE METROPOLITAN DISTRICT 565 MAIN STREET HARTFORD CT 06103 Generator's Phone: 860 278-7850			Generator's Site Address (if different than mailing address) THE METROPOLITAN DISTRICT / RESERVOIR #6 2900 ALBANY AVENUE & ROUTE 44 WEST HARTFORD CT 06117					
6. Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.				U.S. EPA ID Number CTD018811802				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address WAYNE DISPOSAL INC. - SITE #2 LANDFILL 49360 NORTH 194 SERVICE DRIVE BELLEVILLE MI 48111 Facility's Phone: 800 592-5489				U.S. EPA ID Number MIDD48090833				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		1. RC UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLID, 0, PGI		001 CM		10,000	K	CR01 PCB PCB
		2.						
		3.						
		4.						
14. Special Handling Instructions and Additional Information 6/09/2014 CONFIRMATION # 514713 C 9:20 AM 7/3/14 ESJ JOB # 2013-1052 ESJ PO # 59534 CONF # 0100								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:								
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials							
	Transporter 1 Printed/Typed Name Joseph J. Roberts		Signature [Signature]		Month Day Year 7/29/14			
	Transporter 2 Printed/Typed Name Joseph J. Roberts		Signature [Signature]		Month Day Year 7/30/14			
SIGNATED FACILITY	18. Discrepancy							
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection OK TO MAKE CORRECTIONS PER DENISE BOWEN W/ ECR-NE, ALSO 7/31/14							
	18b. Alternate Facility (or Generator) U.S. EPA ID Number							
	Facility's Phone:							
	18c. Signature of Alternate Facility (or Generator) Month Day Year							
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a Printed/Typed Name Dan Shih Signature [Signature] Month Day Year 7/31/14							

CERTIFICATE OF DISPOSAL



FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Sealed
and specified on Manifest # 61529800611C, Line Item 1 has been landfilled on
July 31, 2011 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: me wh

THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

140115-6574

D2

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number 40CFR PART 701	2. Page 1 of 1	3. Emergency Response Phone 1 800 486-7745	4. Manifest Tracking Number 012781379 JJK
5. Generator's Name and Mailing Address THE METROPOLITAN DISTRICT 555 MAIN STREET HARTFORD CT 06103 Generator's Phone: 860 278-7850			Generator's Site Address (if different than mailing address) THE METROPOLITAN DISTRICT / RESERVOIR #6 2900 ALBANY AVENUE & ROUTE 44 WEST HARTFORD, CT 06117		
6. Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.			U.S. EPA ID Number CTD018811802		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address CLEAN HARBORS OF BRAINTREE, INC. 1 MILL AVENUE BRAintree MA 02184 Facility's Phone: 781 380-7100			U.S. EPA ID Number MAD053452037		

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RD UN2315, WASTE POLYCHLORINATED BIPHENYLS, LIQUID, 9, PGII.	001	TT	4255	K	CR01	MAD2
	2.						
	3.						
	4.						

14. Special Handling Instructions and Additional Information
OSDC 6109 2014 11ERG #171 PROFILE #CH833610
8% Solids Sales order # 1401156574

ESI JOB # 2013-1052
ESI PO # 59344

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Officer's Printed/Typed Name: Brian Gregory Signature: [Signature] Month: 07 Day: 02 Year: 14

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____
Transporter signature (for exports only): _____ Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Irving Anderson Signature: [Signature] Month: 07 Day: 02 Year: 14
Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number: _____
18b. Alternate Facility (or Generator) U.S. EPA ID Number: _____
Facility's Phone: _____
18c. Signature of Alternate Facility (or Generator) Month: _____ Day: _____ Year: _____

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H141 2. _____ 3. _____ 4. _____

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Huyun Signature: [Signature] Month: 17 Day: 14 Year: 14

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL



FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB S.I.J
and specified on Manifest # 012781100 JJLC, Line Item 1 has been landfilled on
June 12, 2011 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111

Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: me wh

THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number 40 CFR PART 701	2. Page 1 of 1	3. Emergency Response Phone 1 800 486-7745	4. Manifest Tracking Number 012781102 JJK		
5. Generator's Name and Mailing Address THE METROPOLITAN DISTRICT 555 MAIN STREET HARTFORD CT 06103 Generator's Phone: 860 278-7860			Generator's Site Address (if different than mailing address) THE METROPOLITAN DISTRICT / RESERVOIR # 8 2000 ALBANY AVENUE & ROUTE 44 WEST HARTFORD CT 06117				
6. Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.			U.S. EPA ID Number CTD018811002				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address WAYNE DISPOSAL INC. - SITE #2 LANDFILL 49350 NORTH 194 SERVICE DRIVE BELLEVILLE MI 48111 Facility's Phone: 800 592-5489			U.S. EPA ID Number MID048090833				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
		1. RQ UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLID, S. PGII.	001	CM	13,709	K	CR01 PCB0
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information 04/01/2014 Appointment: Thurs 6/5/14 at 9:40 AM URGENT # 171 PROFILE # 4/28/14 PCB CAULKING, O.S.D. Approval # 1019021 WDI ESI JOB # 2013-1052 ESI PO # 58904 CAN # 038							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name Brian S. Gregory Signature [Signature] Month Day Year 05 16 14							
INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.:						
TRANSPORTER	17. Transporter's Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Kevin Kiely Signature [Signature] Month Day Year 05 16 14						
	Transporter 2 Printed/Typed Name Joseph J. Pelletier Signature [Signature] Month Day Year 06 04 14						
DESIGNATED FACILITY	18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection OK to correct waste code & add approval # no 18b. Alternate Facility (or Generator) Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year						
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. PCB 2. 3. 4.						
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name [Signature] Signature [Signature] Month Day Year 06 05 14						
	EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.						

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB SLD
and specified on Manifest # 612781102 JK, Line Item 1 has been landfilled on
Jan 5, 2017 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N.I-94 Service Drive, Belleville, Michigan 48111

Telephone: 1-800-KWALITY (592-5489)

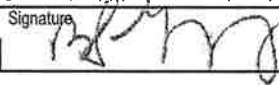
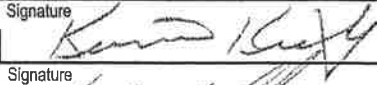
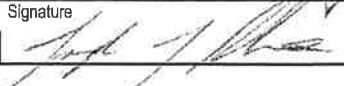
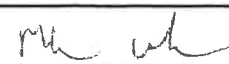
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: mu wh



THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number 40CFR PART 781	2. Page 1 of 1	3. Emergency Response Phone 1 800 486-7745	4. Manifest Tracking Number 012781101 JJK		
5. Generator's Name and Mailing Address THE METROPOLITAN DISTRICT 665 MAIN STREET HARTFORD CT 06103			Generator's Site Address (if different than mailing address) THE METROPOLITAN DISTRICT / RESERVOIR #8 2900 ALBANY AVENUE & ROUTE 44 WEST HARTFORD CT 06117				
6. Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.			U.S. EPA ID Number CTD018611802				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address WAYNE DISPOSAL INC. - SITE #2 LANDFILL 48350 NORTH 194 SERVICE DRIVE BELLEVILLE MI 48111			U.S. EPA ID Number MI D048090833				
Facility's Phone: 800 582-5480							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	1. RQ UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, PGII.	001	CM	9,045	K	CRD1 PCB1
		2.					
		3.					
	4.						
14. Special Handling Instructions and Additional Information 04/01/2014 F14902WDI 1) ERG #171 PROFILE # 463140 PCB CAULKING O.S.D. CONFIRMATION # 503840 ON 6/9/14 @ 09:50 AM ESI JOB # 2013-1052 ESI PO # 58904 CA # 118							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name Brian S. Gragort			Signature 			Month Day Year 05 16 14	
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials						
TRANSPORTER	Transporter 1 Printed/Typed Name Kevin Kieley			Signature 		Month Day Year 5 16 14	
	Transporter 2 Printed/Typed Name Joseph J. Roberts			Signature 		Month Day Year 6 8 14	
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection initial weight: 10,000 lb of PCBs in 1000 lb of waste. Manifest Reference Number: 0109114						
	18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____						
	Facility's Phone: _____						
	18c. Signature of Alternate Facility (or Generator) _____						Month Day Year ____
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1		2		3		4	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Mark Webb			Signature 			Month Day Year 6 7 17	

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB S. 101
and specified on Manifest # 612781101 JJL, Line Item 1 has been landfilled on
10/1/2011 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111

Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: re sh



THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CTPD000032098	2. Page 1 of 1	3. Emergency Response Phone 1 800 488-7745	4. Manifest Tracking Number 012781090 JJK		
5. Generator's Name and Mailing Address THE METROPOLITAN DISTRICT 555 MAIN STREET HARTFORD CT 06103 Generator's Phone: 860 278-7850			Generator's Site Address (if different than mailing address) THE METROPOLITAN DISTRICT / RESERVOIR #8 2900 ALBANY AVENUE & ROUTE 44 WEST HARTFORD CT 06117				
6. Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.			U.S. EPA ID Number CTD018811802				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address TRADEBE Treatment & Recycling Northeast, LLC 136 GRACEY AVENUE MERIDEN CT 06451 Facility's Phone: 203 238-8751			U.S. EPA ID Number CTD021618888				
GENERATOR	9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
		1. NON-RCRA, NON-DOT REGULATED PETROLEUM IMPACTED LIQUID.	001	TT	2588	G	CR02
		2.					
		3.					
	4.						
14. Special Handling Instructions and Additional Information 1) PROFILE # 8278 LH WATER WITH TRACE OIL							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name Dennis J Rendell			Signature <i>[Signature]</i>			Month Day Year 15 13 14	
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials						
TRANSPORTER	Transporter 1 Printed/Typed Name William York			Signature <i>[Signature]</i>		Month Day Year 15 13 14	
	Transporter 2 Printed/Typed Name			Signature		Month Day Year	
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	Manifest Reference Number:						
	18b. Alternate Facility (or Generator) U.S. EPA ID Number						
	Facility's Phone:						
	18c. Signature of Alternate Facility (or Generator)					Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
	1. H135		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Virginia Pierson			Signature <i>[Signature]</i>			Month Day Year 05 13 14	

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CTP0000032098		2. Page 1 of 1	3. Emergency Response Phone 1 800 486-7745		4. Manifest Tracking Number 012781090 JJK		
		5. Generator's Name and Mailing Address THE METROPOLITAN DISTRICT 555 MAIN STREET HARTFORD CT 06103		Generator's Site Address (if different than mailing address) THE METROPOLITAN DISTRICT / RESERVOIR # 8 2900 ALBANY AVENUE & ROUTE 44 WEST HARTFORD CT 06117					
6. Generator's Phone: 8 6 0 2 7 8 - 7 8 5 0		6. Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.					U.S. EPA ID Number CTD018811802		
7. Transporter 2 Company Name							U.S. EPA ID Number		
8. Designated Facility Name and Site Address TRADEBE Treatment & Recycling Northeast, LLC 138 GRACEY AVENUE MERIDEN CT 06451							U.S. EPA ID Number CTD021818889		
Facility's Phone: 203 238-8751									
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		1. NON-RCRA, NON-DOT REGULATED PETROLEUM IMPACTED LIQUID.			0 0 1 TT		2588	G	CR02
		2.							
		3.							
		4.							
14. Special Handling Instructions and Additional Information 1) PROFILE # 8278 LH WATER WITH TRACE OIL									
								ESI JOB # 2013-1052 ESI PO # 58472	
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offor's Printed/Typed Name Daniel J Rendell					Signature <i>[Signature]</i>		Month Day Year 15 13 14		
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____								
	17. Transporter Acknowledgment of Receipt of Materials								
TRANSPORTER	Transporter 1 Printed/Typed Name William York					Signature <i>[Signature]</i>		Month Day Year 15 13 14	
	Transporter 2 Printed/Typed Name					Signature		Month Day Year	
DESIGNATED FACILITY	18. Discrepancy								
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
	Manifest Reference Number: _____								
	18b. Alternate Facility (or Generator)					U.S. EPA ID Number			
	Facility's Phone: _____								
18c. Signature of Alternate Facility (or Generator)									Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H135			2.			3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name Virginia Pierson					Signature <i>[Signature]</i>		Month Day Year 05 13 14		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number			
		CTP000032090	1	1 800 488-7745	012781090 JJK			
5. Generator's Name and Mailing Address		Generator's Site Address (if different than mailing address)						
THE METROPOLITAN DISTRICT 565 MAIN STREET HARTFORD CT 06103		THE METROPOLITAN DISTRICT / RESERVOIR # 8 2000 ALBANY AVENUE & ROUTE 44 WEST HARTFORD CT 06117						
Generator's Phone: 880 278-7850								
6. Transporter 1 Company Name		U.S. EPA ID Number						
ENVIRONMENTAL SERVICES, INC.		CTD018911802						
7. Transporter 2 Company Name		U.S. EPA ID Number						
8. Designated Facility Name and Site Address		U.S. EPA ID Number						
TRADESE Treatment & Recycling Northeast, LLC 138 GRACEY AVENUE MERIDEN CT 06451								
Facility's Phone: 203 236-8761		CTD021816590						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
			No.	Type				
	1. NON-RCRA, NON-DOT REGULATED PETROLEUM IMPACTED LIQUID		001	TT	2580	0	C001	
	2.							
	3.							
4.								
14. Special Handling Instructions and Addl		TRACE OIL						
15. GENERATOR'S/OFFEROR'S CERTIF marked and labeled/placarded, and are Exporter, I certify that the contents of th I certify that the waste minimization stat		ESI JOB # 2013-1062 ESI PO #						
Generator's/Offor's Printed/Typed Name		tely described above by the proper shipping name, and are classified, packaged, nd national governmental regulations. If export shipment and I am the Primary t. a small quantity generator) is true.						
16. International Shipments <input type="checkbox"/> Imp		Month Day Year 5 13 14						
Transporter signature (for exports only):		if entry/exit: aving U.S.:						
17. Transporter Acknowledgment of Receipt of W		Month Day Year 5 13 14						
Transporter 1 Printed/Typed Name		Month Day Year						
Transporter 2 Printed/Typed Name		Signature						
18. Discrepancy		18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator)		Manifest Reference Number: U.S. EPA ID Number						
Facility's Phone:		Month Day Year						
18c. Signature of Alternate Facility (or Generator)		Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)		1. 2. 3. 4.						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a		Printed/Typed Name Signature Month Day Year						

JOB # 7213-1052DATE 5/13/2014DAY M T W TH F S SUCONTACT PERSON Sally KeatingPHONE 860-278-7850CLIENT MDCBILLING ADDRESS 555 Main St. P.O. Box 800Hartford CT 06102ATTN **Environmental Services, Inc.**24 Hour Oil & Chemical Spill Contractor
(860) 528-9500**Mitchell Associates, Inc.**

(860) 289-1000

90 Brookfield Street
South Windsor, CT 06074P.O. # T&M ☒E.R. ☐CONTRACT ☐HAZMAT
SURCHARGE ☐DEPART FROM SHOP 07:00 AM PMARRIVE BACK AT SHOP AM / PMTOTAL HOURS JOB LOCATION 2900 Albany Ave.
West Hartford, CT**LABOR:**

NAME	TITLE	ST	OT	DT	FLEET #
	SUPERVISOR				
	FOREMAN				
<u>R. H. Yarb</u>	EQ OPER / DRIVER				<u>121</u>
	EQ OPER / DRIVER				
	EQ OPER / DRIVER				
<u>R. G. Grogan</u>	ENV. FIELD TECHNICIAN				
	ENV. FIELD TECHNICIAN				
	ENV. FIELD TECHNICIAN				

SPOSAL:

	FACILITY	QTY	MANIFEST #
SOLID (DRUMS)			
LIQUID (DRUMS)			
LIQUID (BULK)	<u>Truck bed</u>	<u>2,388.6</u>	<u>DIK78106055K</u>
ESTIMATED SOLIDS IN BULK LOAD (IN GALS.)			
SOLID (BULK)			

ROLL-OFF CANS INVENTORY: (Check Box if Onsite Only)

CAN NUMBER	CAN NUMBER	CAN NUMBER	CAN NUMBER	CAN NUMBER

ANALYSIS:

QTY	TYPE	LAB	PO#

JOB DESCRIPTION:

Mobile site to site. Vac out rainwater.
Manhole liquid to Truck bed.

JOB COMPLETED ☐ YES ☒ NO ☐ JOB DONE EXCEPT FOR DISPOSALSIGNATURE: [Signature]

ENVIRONMENTAL SERVICES INC / MITCHELL ASSOCIATES, INC. REPRESENTATIVE

Pg 1 of 1**EQUIPMENT:**

QTY	TYPE	FLEET #	# OF HRS
	PICK-UP TRUCK		
	EM-RESPONSE VAN		
	VACUUM ST. TRUCK		
<u>1</u>	SUPERVAC / MASTER VAC	<u>121</u>	
	VACUUM TRAILER		
	ROLLOFF TRUCK/TRAILER		
	RACK TRUCK		
	BOX TRUCK		
	6 WHEEL DUMP TRUCK		
	10 WHEEL DUMP TRUCK		
	TRI-AXLE DUMP TRUCK		
	TRAILER DUMP / TRACTOR		
	EXCAVATOR()		
	BOBCAT/ATTCH ()		
	BACKHOE/ATTCH()		
	LOADER		
	PRESSURE WASHER TRAILER		
	CONFINED SPACE TRAILER		
	POWER WORK BOAT		
	TAG-TRAILER		
	COMPRESSOR/WJACKHAMMER		
	GENERATOR()		
	LIGHT PLANT		
	METER ()		



MATERIALS:

QTY	DESCRIPTION	QTY	DESCRIPTION
	SPEEDI DRI		OVERPACK STEEL
	17-H DRUM		OVERPACK PLASTIC
	17-E DRUM		GALLON POLY DRUM
	DRUM LINERS		EPA LEVEL P.P.E
	SORBENT PADS, BALE		ROLLOFF LINER
	5' SORBENT BOOM, BALE		SIMPLE GREEN DEGREASER
	8' SORBENT BOOM, BALE		CAMERA
	HARDBOOM SECTION		FILL
	POLY (ROLL) SIZE:		HAYBALES
	PVC GLOVES		SEED
	" SUPERVAC HOSE		
	DUCT TAPE		

SUBCONTRACTORS / VENDORS:

NAME OF COMPANY	DESCRIPTION OF WORK	PO #

Customer: MDC (Company Name)By: [Signature] (Signature)Daniel J. R. Jr. (Print Name)Date: 5/13/2014

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CTCESQ9999999	2. Page 1 of 1	3. Emergency Response Phone 1 800 486-7745	4. Manifest Tracking Number 011712960 JJK		
5. Generator's Name and Mailing Address THE METROPOLITAN DISTRICT 555 MAIN STREET HARTFORD CT 06103 Generator's Phone: 860 278-7850			Generator's Site Address (if different than mailing address) THE METROPOLITAN DISTRICT / RESERVOIR # 3 2900 ALBANY AVENUE & ROUTE 44 WEST HARTFORD CT 06117				
6. Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.			U.S. EPA ID Number CT0019811802				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address WAYNE DISPOSAL INC. - SITE # 2 LANDFILL 40350 NORTH 194 SERVICE DRIVE BELLEVILLE MI 48111 Facility's Phone: 810 592-5489			U.S. EPA ID Number MI0048090833				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. RQ UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, PGH	38	DM	4,305	K	CR01 PCB0
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information 04/04/2014 DRUM # 1052-50 to 1052- 1)ERG # 171 PROFILE # 458882 PCB CAULKING O.S.D. ESI JOB # 2013-1052 ESI PO #							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name Gordon G...		Signature 		Month 10		Day 12	
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:				
	Transporter signature (for exports only):						
	17. Transporter Acknowledgment of Receipt of Materials						
DESIGNATED FACILITY	Transporter 1 Printed/Typed Name		Signature		Month Day Year		
	Transporter 2 Printed/Typed Name		Signature		Month Day Year		
	18. Discrepancy						
18a. Discrepancy Indication Space		<input type="checkbox"/> Quantity	<input type="checkbox"/> Type	<input type="checkbox"/> Residue	<input type="checkbox"/> Partial Rejection	<input type="checkbox"/> Full Rejection	
18b. Alternate Facility (or Generator)		Manifest Reference Number:		U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)		Month Day Year					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name		Signature 		Month Day Year			

JOB # 2613-1052
DATE 4/16/14
DAY M T W TH F S SU
CONTACT PERSON _____

Environmental Services, Inc.
24 Hour Oil & Chemical Spill Contractor
(860) 528-9500
Mitchell Associates, Inc.
(860) 289-1000

P.O. # _____
T&M ☒ E. R. ☐
CONTRACT ☐ HAZMAT SURCHARGE ☐
DEPART FROM SHOP 1130 AM PM
ARRIVE BACK AT SHOP 330 AM PM
TOTAL HOURS 4

PHONE _____

CLIENT MDC

BILLING ADDRESS 555 Main St
Hartford ct

ATTN _____

90 Brookfield Street
South Windsor, CT 06074

JOB LOCATION _____
2900 Albany Tpke
West Hartford ct

LABOR:

NAME	TITLE	ST	OT	DT	FLEET #
	SUPERVISOR				
	FOREMAN				
<u>Mike Soora</u>	EQ OPER / DRIVER	<u>4</u>			
	EQ OPER / DRIVER				
	EQ OPER / DRIVER				
	ENV. FIELD TECHNICIAN				
	ENV. FIELD TECHNICIAN				
	ENV. FIELD TECHNICIAN				

SPOSAL:

	FACILITY	QTY	MANIFEST #
SOLID (DRUMS)	<u>Waste Disposal Inc</u>	<u>38</u>	<u>011712960</u>
LIQUID (DRUMS)			
LIQUID (BULK)			
ESTIMATED SOLIDS IN BULK (LOAD IN GALS)			
SOLID (BULK)			

ROLL-OFF CANS INVENTORY: (Check Box if Onsite Only)

CAN NUMBER	CAN NUMBER	CAN NUMBER	CAN NUMBER	CAN NUMBER

ANALYSIS:

QTY	TYPE	LAB	PO#

JOB DESCRIPTION:

Traveled out to site, loaded up 38 drums of PCB material on to truck, transported back to shop for disposal on later date

JOB COMPLETED ☐ YES ☐ NO ☒ JOB DONE EXCEPT FOR DISPOSAL

SIGNATURE: Michael Soora

(ENVIRONMENTAL SERVICES INC / MITCHELL ASSOCIATES, INC. REPRESENTATIVE)

Pg 1 of 1

EQUIPMENT:

QTY	TYPE	FLEET #	# OF HRS
	PICK-UP TRUCK		
	EM RESPONSE VAN		
	VACUUM ST. TRUCK		
	SUPERVAC / MASTER VAC		
	VACUUM TRAILER		
	ROLLOFF TRUCK/TRAILER		
	RACK TRUCK		
<u>1</u>	BOX TRUCK	<u>118</u>	<u>4</u>
	8 WHEEL DUMP TRUCK		
	10 WHEEL DUMP TRUCK		
	TRI-AXLE DUMP TRUCK		
	TRAILER DUMP / TRACTOR		
	EXCAVATOR()		
	BOBCAT/ATTCH ()		
	BACKHOE/ATTCH()		
	LOADER		
	PRESSURE WASHER TRAILER		
	CONFINED SPACE TRAILER		
	POWER WORK BOAT		
	TAG-TRAILER		
	COMPRESSOR W/JACKHAMMER		
	GENERATOR()		
	LIGHT PLANT		
	METER ()		

MATERIALS:

QTY	DESCRIPTION	QTY	DESCRIPTION
	SPEEDI DRI		OVERPACK STEEL
	17-H DRUM		OVERPACK PLASTIC
	17-E DRUM		GALLON POLY DRUM
	DRUM LINERS		EPA LEVEL P.P.E
	SORBENT PADS, BALE		ROLLOFF LINER
	5' SORBENT BOOM, BALE		SIMPLE GREEN DEGREASER
	8' SORBENT BOOM, BALE		CAMERA
	HARDBOOM SECTION		FILL
	POLY (ROLL) SIZE:		HAYBALES
	PVC GLOVES		SEED
	" SUPERVAC HOSE		
	DUCT TAPE		

SUBCONTRACTORS / VENDORS:

NAME OF COMPANY	DESCRIPTION OF WORK	PO #

Customer: Brian Gregory

By: Brian Gregory

Date: _____

GENERATOR

INT'L

TRANSPORTER

SIGNATED FACILITY

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator ID Number

C T P 0 0 0 0 2 0 0 0

2. Page 1 of

1

3. Emergency Response Phone

1 800 488-7743

4. Waste Tracking Number

NHWM 131002-11

5. Generator's Name and Mailing Address

THE METROPOLITAN DISTRICT
555 MAIN STREET
HARTFORD CT 06103

Generator's Phone: 860 272-7560

Generator's Site Address (if different than mailing address)

THE METROPOLITAN DISTRICT / RESERVOIR #6
2900 ALBANY AVENUE & ROUTE 44
WEST HARTFORD CT 06117

6. Transporter 1 Company Name

ENVIRONMENTAL SERVICES, INC.

U.S. EPA ID Number

C T 0 0 1 3 8 1 1 5 0 2

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

TRADEBE Treatment & Recycling Northeast, LLC
158 GRACEY AVENUE
MERIDEN CT 06451

U.S. EPA ID Number

Facility's Phone: 203 238-6754

C T 0 0 2 1 6 1 0 0 0 0

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total
Quantity

12. Unit
Wt./Vol.

1. NON-RCRA, NON-DOT REGULATED PETROLEUM
IMPACTED LIQUID.

0 0 1

TT

2,475

g

2.

3.

4.

13. Special Handling Instructions and Additional Information

1) PROFILE # 0273 LH WATER WITH TRACE OIL, TANK RUSH LUTER.

ESI JOB # 2013-1085
ESI PO #

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport acco

Generator's/Offor's Printed/Typed Name

15. International Shipments

☐ Import to U.S.

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Transporter 2 Printed/Typed Name

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity

☐ Type

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year
2 11 14

Month Day Year
2 11 14

Month Day Year

☐ Full Rejection

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

Andrew,
This is for the
rinse water from
Basin # 2 at
Reservoir #6.
R. Baul

GENERATOR

INT'L

TRANSPORTER

SIGNATURE

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

CTP0000032000

2. Page 1 of

1

3. Emergency Response Phone

1 800 450-7745

4. Waste Tracking Number

NHWM131052-11

5. Generator's Name and Mailing Address

THE METROPOLITAN DISTRICT
555 MAIN STREET
HARTFORD CT 06103

Generator's Phone: 860 273-7250

Generator's Site Address (if different than mailing address)

THE METROPOLITAN DISTRICT / RESERVOIR #8
2000 ALBANY AVENUE & ROUTE 44
WEST HARTFORD CT 06117

6. Transporter 1 Company Name

ENVIRONMENTAL SERVICES, INC.

U.S. EPA ID Number

CTD013811502

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

TRADEBE Treatment & Recycling Northeast, LLC
135 GRACEY AVENUE
MERIDEN CT 06451

Facility's Phone: 203 235-6751

U.S. EPA ID Number

CTD021816830

9. Waste Shipping Name and Description

10. Containers

No.

Type

11. Total
Quantity12. Unit
Wt./Vol.1. NON-RCRA, NON-DOT REGULATED PETROLEUM
IMPACTED LIQUID.

001

TT

2,475

G

2.

3.

4.

13. Special Handling Instructions and Additional Information

1) PROFILE # 0278 LH WATER WITH TRACE OIL, TANK WASH WATER.

ESI JOB # 2013-1062
ESI PO #

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Officer's Printed/Typed Name

Signature

Month Day Year

2 11 14

15. International Shipments

☐ Import to U.S.☐ Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

2 11 14

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

☐ Quantity☐ Type☐ Residue☐ Partial Rejection☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

JOB # 2013-1052DATE 2/11/2014DAY M (T) W TH F S SUCONTACT PERSON Sally KeatingPHONE 860-278-7850CLIENT MDCBILLING ADDRESS 555 Main St. P.O. Box 800Hartford, CT 06142

ATTN _____

Environmental Services, Inc.24 Hour Oil & Chemical Spill Contractor
(860) 528-9500**Mitchell Associates, Inc.**

(860) 289-1000

90 Brookfield Street
South Windsor, CT 06074

P.O. # _____

T&M ☒E. R. ☐CONTRACT ☐HAZMAT
SURCHARGE ☐DEPART FROM SHOP 07:00 (AM) / PM

ARRIVE BACK AT SHOP _____ AM / PM

TOTAL HOURS _____

JOB LOCATION _____

2900 Albany Ave.
West Hartford, CT**LABOR:**

NAME	TITLE	ST	OT	DT	FLEET #
	SUPERVISOR				
<u>M. L. Haney</u>	FOREMAN				<u>27</u>
<u>B. H. York</u>	EQ OPER / DRIVER				<u>121</u>
	EQ OPER / DRIVER				
	EQ OPER / DRIVER				
	ENV. FIELD TECHNICIAN				
	ENV. FIELD TECHNICIAN				
	ENV. FIELD TECHNICIAN				

DISPOSAL:

	FACILITY	QTY	MANIFEST #
SOLID (DRUMS)			
LIQUID (DRUMS)			
LIQUID (BULK)			
ESTIMATED SOLIDS IN BULK LOAD (IN GALS.)			
SOLID (BULK)			

ROLL-OFF CANS INVENTORY: (Check Box if Onsite Only)

CAN NUMBER	CAN NUMBER	CAN NUMBER	CAN NUMBER	CAN NUMBER

ANALYSIS:

QTY	TYPE	LAB	PO#

JOB DESCRIPTION:

Mobilize to site. Utilize Super Vac to vac out yinse water from drain tank as MDC personnel cleaned tank.

EQUIPMENT:

QTY	TYPE	FLEET #	# OF HRS
<u>1</u>	PICK-UP TRUCK	<u>27</u>	
	EM RESPONSE VAN		
	VACUUM ST. TRUCK		
<u>1</u>	SUPERVAC / MASTER VAC	<u>121</u>	
	VACUUM TRAILER		
	ROLLOFF TRUCK/TRAILER		
	RACK TRUCK		
	BOX TRUCK		
	8 WHEEL DUMP TRUCK		
	10 WHEEL DUMP TRUCK		
	TRI-AXLE DUMP TRUCK		
	TRAILER DUMP / TRACTOR		
	EXCAVATOR()		
	BOBCAT/ATTCH ()		
	BACKHOE/ATTCH()		
	LOADER		
	PRESSURE WASHER TRAILER		
	CONFINED SPACE TRAILER		
	POWER WORK BOAT		
	TAG-TRAILER		
	COMPRESSOR W/JACKHAMMER		
	GENERATOR()		
	LIGHT PLANT		
	METER ()		

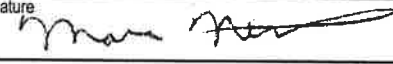
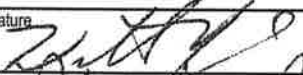
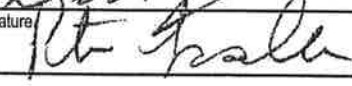
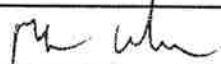
MATERIALS:

QTY	DESCRIPTION	QTY	DESCRIPTION
	SPEEDI DRI		OVERPACK STEEL
	17-H DRUM		OVERPACK PLASTIC
	17-E DRUM		GALLON POLY DRUM
	DRUM LINERS		EPA LEVEL P.P.E
	SORBENT PADS, BALE		ROLLOFF LINER
	5' SORBENT BOOM, BALE		SIMPLE GREEN-DEGREASER
	8' SORBENT BOOM, BALE		CAMERA
	HARDBOOM SECTION		FILL
	POLY (ROLL) SIZE:		HAYBALES
	PVC GLOVES		SEED
	" SUPERVAC HOSE		
	DUCT TAPE		

SUBCONTRACTORS / VENDORS:

NAME OF COMPANY	DESCRIPTION OF WORK	PO #

JOB COMPLETED ☐ YES ☒ NO ☐ JOB DONE EXCEPT FOR DISPOSALSIGNATURE: [Signature]
(ENVIRONMENTAL SERVICES INC MITCHELL ASSOCIATES, INC. REPRESENTATIVE)Customer: MDC (Company Name)By: Brian Gregory SignatureDate: 2/11/2014 Print Name

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number <u>40 CFR PART 261</u> CTP 0000000000	2. Page 1 of <u>1</u>	3. Emergency Response Phone <u>1 800 486-7745</u>	4. Manifest Tracking Number 011712811 JJK
5. Generator's Name and Mailing Address THE METROPOLITAN DISTRICT 555 MAIN STREET HARTFORD CT 06103			Generator's Site Address (if different than mailing address) THE METROPOLITAN DISTRICT / RESERVOIR # 8 2900 ALBANY AVENUE & ROUTE 44 WEST HARTFORD CT 06117		
6. Transporter's Company Name ENVIRONMENTAL SERVICES, INC.			U.S. EPA ID Number CTD018811802		
7. Designated Facility Name and Site Address WAYNE DISPOSAL INC. - SITE #2 LANDFILL 49350 NORTH 194 SERVICE DRIVE BELLEVILLE MI 48111			U.S. EPA ID Number MID048090833		
8. Facility's Phone: <u>800 592-5489</u>					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity
			No.	Type.	12. Unit Wt./Vol.
	X	RQ UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, PGII. L139070WDI	002	DM	00181
					K
			13. Waste Codes		
			CR01	PC86	
14. Special Handling Instructions and Additional Information <u>1/23/2014 DRUM # 1052-30 to 1052-32</u> <u>DERG # 171 PROFILE # 458882 PCB CAULKING O.S.D.</u> ESI JOB # 2013-1082 ESI PO # 57639					
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
Generator's/Officer's Printed/Typed Name Marc Nettleton		Signature 		Month Day Year 12/3/14	
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____				
	17. Transporter Acknowledgment of Receipt of Materials				
	Transporter 1 Printed/Typed Name William York		Signature 		Month Day Year 12/3/14
	Transporter 2 Printed/Typed Name Peter Lawler		Signature 		Month Day Year 12/4/14
DESIGNATED FACILITY	18. Discrepancy				
	18a. Discrepancy Indication: Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection <input type="checkbox"/>				
	OK to correct generator EPA id per Jim meyerhans w/ Environmental services Manifest Reference Number: SC21314				
	18b. Alternate Facility (or Generator) U.S. EPA ID Number				
	Facility's Phone: _____				
	18c. Signature of Alternate Facility (or Generator) Month Day Year				
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)				
	1. PCB	2.	3.	4.	
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a				
	Printed/Typed Name Mark Weekly		Signature 		Month Day Year 12/17/14

CERTIFICATE OF DISPOSAL



FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as CB S.I.J
and specified on Manifest # 011712811J/K, Line Item 1 has been landfilled on
Feb. 14, 2014 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.


(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111

Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: 

THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number <u>40CFR PART 701</u>		2. Page 1 of <u>1</u>		3. Emergency Response Phone <u>1 800 488-7745</u>		4. Manifest Tracking Number 011712798 JJK			
		<u>CTP0000032000</u>									
5. Generator's Name and Mailing Address THE METROPOLITAN DISTRICT 555 MAIN STREET HARTFORD CT 06103		Generator's Site Address (if different than mailing address) THE METROPOLITAN DISTRICT / RESERVOIR # 8 2900 ALBANY AVENUE & ROUTE 44 WEST HARTFORD CT 06117									
Generator's Phone: <u>860 278-7850</u>											
6. Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.		U.S. EPA ID Number <u>CTD018811802</u>									
7. Transporter 2 Company Name <u>EQ Env</u>		U.S. EPA ID Number <u>M30048090633</u>									
8. Designated Facility Name and Site Address WAYNE DISPOSAL INC. - SITE # 2 LANDFILL 49350 NORTH 104 SERVICE DRIVE BELLEVILLE MI 48111		U.S. EPA ID Number <u>MID048090633</u>									
Facility's Phone: <u>800 592-5489</u>											
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
						No.	Type				
	X	1. RQ UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, PGII. <u>L139070W01</u>				015	DM	1361	K	CR01	PCB6
	X	2. RQ, UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, PGII. <u>A149099W01</u>				006	DM	272	K	CR01	PCB6
		3.									
		4.									
14. Special Handling Instructions and Additional Information <u>1) ERG # 171 PROFILE # 458882 PCB CAULKING O.S.D.</u> <u>L123/2014 DRUM # 1052-10 to 1052-24 2) ERG # 171 PROFILE # 458798 PCB CAULKING WITH</u> <u>NON-FRIABLE ASBESTOS DRUM # 1052-25 to 1052-30 CONFIRMATION #</u> <u>OSD - 1123/14</u>											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's Offeror's Printed/Typed Name <u>Brian Grayson</u> Signature <u>[Signature]</u> Month <u>11</u> Day <u>23</u> Year <u>14</u>											
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____										
	17. Transporter Acknowledgment of Receipt of Materials										
TRANSPORTER	Transporter 1 Printed/Typed Name <u>William York</u> Signature <u>[Signature]</u> Month <u>11</u> Day <u>23</u> Year <u>14</u>										
	Transporter 2 Printed/Typed Name <u>Peter Lavallier</u> Signature <u>[Signature]</u> Month <u>12</u> Day <u>14</u> Year <u>14</u>										
DESIGNATED FACILITY	18. Discrepancy										
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection <u>OK TO LOSE per Jim Meyerhans w/ Environmental Services SC 213114</u>										
	18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____										
	Facility's Phone: _____										
	18c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____										
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1. <u>PCB</u> 2. <u>PCB</u> 3. _____ 4. _____											
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name <u>Mark Walsh</u> Signature <u>[Signature]</u> Month <u>12</u> Day <u>14</u> Year <u>14</u>											

This certificate is to verify the wastes identified as

and specified on Manifest # 011712798 JLC, Line Item 1-2 has been landfilled on

Feb 14, 2014 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111

Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature:

THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CT P000032096	2. Page 1 of 1	3. Emergency Response Phone 1 800 426-7745	4. Manifest Tracking Number 011712669 JJK		
5. Generator's Name and Mailing Address THE METROPOLITAN 555 MAIN STREET HARTFORD, CT 06103			Generator's Site Address (if different than mailing address) MDC RESERVOIR #6 2900 ALBANY AVENUE WEST HARTFORD, CT 06117				
Generator's Phone: (860) 278-7850							
6. Transporter 1 Company Name ENVIRONMENTAL SERVICES, INC.			U.S. EPA ID Number CT0018811802				
7. Transporter 2 Company Name Clean Harbor Env. Services Inc.			U.S. EPA ID Number MA003632250				
8. Designated Facility Name and Site Address WAXING & DRESSING JEWELRY SITE #7 SPAINBROOK SPRING GROVE 4874 SPRING GROVE AVENUE CINCINNATI, OH 45232			U.S. EPA ID Number OH000816629				
Facility's Phone: (513) 542-5429			MA 0042090633				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	1. POLYCHLORINATED BIPHENYLS, SOLID, 9, PG II	009	DM	408	K	CR8 PCB6
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information ERG # 171 Profile # CH729524 PCB 7500 PPM O.S.D. 11/21/2013. 0287 99952 0A - 1 - 12013 Drum # 1052-1 thru 1052-9 EST JOB # 2013-1052 EST PO # 57022							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name Daniel J Randall			Signature <i>Daniel J Randall</i>			Month Day Year 11 26 13	
INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials						
TRANSPORTER	Transporter 1 Printed/Typed Name William York			Signature <i>William York</i>			Month Day Year 11 26 13
	Transporter 2 Printed/Typed Name Clean Harbor			Signature <i>Clean Harbor</i>			Month Day Year 12 30 13
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____						
	Facility's Phone: _____						
	18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H141		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Nicole Erdy			Signature <i>Nicole Erdy</i>			Month Day Year 01 03 14	

JOB # 2013-1052DATE 11/26/2013DAY M (D) W T H F S S UCONTACT PERSON Sally KeatingPHONE 860-278-7950CLIENT UICBILLING ADDRESS 555 Main St., P.O. Box 800Hartford, CT 06142

ATTN _____

Environmental Services, Inc.24 Hour Oil & Chemical Spill Contractor
(860) 528-9500**Mitchell Associates, Inc.**

(860) 289-1000

90 Brookfield Street
South Windsor, CT 06074

P.O. # _____

T&M ☒ E. R. ☐CONTRACT ☐ HAZMAT SURCHARGE ☐DEPART FROM SHOP 13:00 AM (PM)

ARRIVE BACK AT SHOP _____ AM / PM

TOTAL HOURS _____

JOB LOCATION _____

2900 Albany Ave.
West Hartford, CT 06107**LABOR:**

NAME	TITLE	ST	OT	DT	FLEET #
	SUPERVISOR				
	FOREMAN				
<u>R. York</u>	EQ OPER / DRIVER				<u>22</u>
	EQ OPER / DRIVER				
	EQ OPER / DRIVER				
	ENV. FIELD TECHNICIAN				
	ENV. FIELD TECHNICIAN				
	ENV. FIELD TECHNICIAN				

DISPOSAL:

	FACILITY	QTY	MANIFEST #
SOLID (DRUMS)	<u>EQ</u>	<u>9</u>	<u>01171266435K</u>
LIQUID (DRUMS)			
LIQUID (BULK)			
ESTIMATED SOLIDS IN BULK LOAD (IN BAGS)			
SOLID (BULK)			

ROLL-OFF CANS INVENTORY: (Check Box if Onsite Only)

CAN NUMBER	CAN NUMBER	CAN NUMBER	CAN NUMBER	CAN NUMBER

ANALYSIS:

QTY	TYPE	LAB	PO#

JOB DESCRIPTION:

Mobilize to site. P/H waste for disposal.
Manifest waste to EQ.

 JOB COMPLETED ☐ YES ☒ NO ☐ JOB DONE EXCEPT FOR DISPOSAL
SIGNATURE: [Signature]

(ENVIRONMENTAL SERVICES INC / MITCHELL ASSOCIATES, INC. REPRESENTATIVE)

Pg 1 of 1**EQUIPMENT:**

QTY	TYPE	FLEET #	# OF HRS
	PICK-UP TRUCK		
	EM RESPONSE VAN		
	VACUUM ST. TRUCK		
	SUPERVAC / MASTER VAC		
	VACUUM TRAILER		
	ROLLOFF TRUCK/TRAILER		
<u>1</u>	RACK TRUCK	<u>22</u>	
	BOX TRUCK		
	6 WHEEL DUMP TRUCK		
	10 WHEEL DUMP TRUCK		
	TRI-AXLE DUMP TRUCK		
	TRAILER DUMP / TRACTOR		
	EXCAVATOR()		
	BOBCAT/ATTCH ()		
	BACKHOE/ATTCH()		
	LOADER		
	PRESSURE WASHER TRAILER		
	CONFINED SPACE TRAILER		
	POWER WORK BOAT		
	TAG-TRAILER		
	COMPRESSOR W/JACKHAMMER		
	GENERATOR()		
	LIGHT PLANT		
	METER ()		

MATERIALS:

QTY	DESCRIPTION	QTY	DESCRIPTION
	SPEEDI DRI		OVERPACK STEEL
	17-H DRUM		OVERPACK PLASTIC
	17-E DRUM		GALLON POLY DRUM
	DRUM LINERS		EPA LEVEL P.P.E
	SORBENT PADS, BALE		ROLLOFF LINER
	5' SORBENT BOOM, BALE		SIMPLE GREEN DEGREASER
	8' SORBENT BOOM, BALE		CAMERA
	HARDBOOM SECTION		FILL
	POLY (ROLL) SIZE:		HAYBALES
	PVC GLOVES		SEED
	" SUPERVAC HOSE		
	DUCT TAPE		

SUBCONTRACTORS / VENDORS:

NAME OF COMPANY	DESCRIPTION OF WORK	PO #

Customer: UICBy: [Signature] (Company Name)[Signature] SignatureDate: 11/26/2013 Print Name

APPENDIX C
ANALYTICAL DATA REPORTS

Report Date:
02-Dec-13 15:24



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

TRC
21 Griffin Road North
Windsor, CT 06095
Attn: Erik Plimpton

Project: MDC - Reservoir #6 (Basin 2)-West Hartford, CT
Project #: 211304.0000.0000

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB80903-01	3/4-C-0"	Concrete	21-Nov-13 11:14	25-Nov-13 16:35
SB80903-02	3/4-C-3"	Concrete	21-Nov-13 11:12	25-Nov-13 16:35
SB80903-03	3/4-C-6"	Concrete	21-Nov-13 11:10	25-Nov-13 16:35
SB80903-04	3/4-C-9"	Concrete	21-Nov-13 11:08	25-Nov-13 16:35
SB80903-05	3/4-C-12"	Concrete	21-Nov-13 11:06	25-Nov-13 16:35
SB80903-06	0-C-0"	Concrete	21-Nov-13 11:45	25-Nov-13 16:35
SB80903-07	0-C-3"	Concrete	21-Nov-13 11:43	25-Nov-13 16:35
SB80903-08	0-C-6"	Concrete	21-Nov-13 11:40	25-Nov-13 16:35
SB80903-09	0-C-9"	Concrete	21-Nov-13 11:37	25-Nov-13 16:35
SB80903-10	0-C-12"	Concrete	21-Nov-13 11:35	25-Nov-13 16:35
SB80903-11	18-C-0"	Concrete	21-Nov-13 12:33	25-Nov-13 16:35
SB80903-12	18-C-3"	Concrete	21-Nov-13 12:30	25-Nov-13 16:35
SB80903-13	18-C-6"	Concrete	21-Nov-13 12:28	25-Nov-13 16:35
SB80903-14	18-C-9"	Concrete	21-Nov-13 12:26	25-Nov-13 16:35
SB80903-15	18-C-12"	Concrete	21-Nov-13 12:22	25-Nov-13 16:35
SB80903-16	16/17-C-0"	Concrete	21-Nov-13 13:47	25-Nov-13 16:35
SB80903-17	16/17-C-3"	Concrete	21-Nov-13 13:45	25-Nov-13 16:35
SB80903-18	16/17-C-6"	Concrete	21-Nov-13 13:43	25-Nov-13 16:35
SB80903-19	16/17-C-9"	Concrete	21-Nov-13 13:40	25-Nov-13 16:35
SB80903-20	16/17-C-12"	Concrete	21-Nov-13 13:38	25-Nov-13 16:35
SB80903-21	16-C-0"	Concrete	21-Nov-13 14:18	25-Nov-13 16:35
SB80903-22	16-C-3"	Concrete	21-Nov-13 14:15	25-Nov-13 16:35
SB80903-23	16-C-6"	Concrete	21-Nov-13 14:13	25-Nov-13 16:35
SB80903-24	16-C-9"	Concrete	21-Nov-13 14:10	25-Nov-13 16:35
SB80903-25	16-C-12"	Concrete	21-Nov-13 14:07	25-Nov-13 16:35
SB80903-26	5-C-0"	Concrete	22-Nov-13 08:45	25-Nov-13 16:35
SB80903-27	5-C-3"	Concrete	22-Nov-13 08:42	25-Nov-13 16:35
SB80903-28	5-C-6"	Concrete	22-Nov-13 08:39	25-Nov-13 16:35
SB80903-29	5-C-9"	Concrete	22-Nov-13 08:36	25-Nov-13 16:35
SB80903-30	5-C-12"	Concrete	22-Nov-13 08:34	25-Nov-13 16:35
SB80903-31	5-C-3"D	Concrete	22-Nov-13 09:00	25-Nov-13 16:35
SB80903-32	5-C-6"D	Concrete	22-Nov-13 09:10	25-Nov-13 16:35
SB80903-33	3/4-I-0"	Concrete	22-Nov-13 09:40	25-Nov-13 16:35
SB80903-34	3/4-I-3"	Concrete	22-Nov-13 09:37	25-Nov-13 16:35
SB80903-35	3/4-I-6"	Concrete	22-Nov-13 09:34	25-Nov-13 16:35
SB80903-36	9-J-0"	Concrete	22-Nov-13 10:10	25-Nov-13 16:35
SB80903-37	9-J-3"	Concrete	22-Nov-13 10:07	25-Nov-13 16:35

SB80903-38	9-J-6"	Concrete	22-Nov-13 10:03	25-Nov-13 16:35
SB80903-39	9-J-3"D	Concrete	22-Nov-13 10:29	25-Nov-13 16:35
SB80903-40	9-J-6"D	Concrete	22-Nov-13 10:25	25-Nov-13 16:35
SB80903-41	7/8-W/A-0"	Concrete	22-Nov-13 11:15	25-Nov-13 16:35
SB80903-42	7/8-W/A-3"	Concrete	22-Nov-13 11:11	25-Nov-13 16:35
SB80903-43	7/8-W/A-6"	Concrete	22-Nov-13 11:04	25-Nov-13 16:35
SB80903-44	3/4-C-3"D	Concrete	22-Nov-13 11:40	25-Nov-13 16:35
SB80903-45	3/4-C-6"D	Concrete	22-Nov-13 11:37	25-Nov-13 16:35
SB80903-46	0-C-3"D	Concrete	22-Nov-13 13:26	25-Nov-13 16:35
SB80903-47	0-C-6"D	Concrete	22-Nov-13 13:30	25-Nov-13 16:35
SB80903-48	0/1-C-0"	Concrete	22-Nov-13 14:17	25-Nov-13 16:35
SB80903-49	0/1-C-3"	Concrete	22-Nov-13 14:13	25-Nov-13 16:35
SB80903-50	0/1-C-6"	Concrete	22-Nov-13 14:10	25-Nov-13 16:35
SB80903-51	0/1-C-9"	Concrete	22-Nov-13 14:07	25-Nov-13 16:35
SB80903-52	0/1-C-12"	Concrete	22-Nov-13 14:04	25-Nov-13 16:35
SB80903-53	18-C-CK	Cork	22-Nov-13 11:00	25-Nov-13 16:35
SB80903-54	0/1-C-CK	Cork	22-Nov-13 14:20	25-Nov-13 16:35

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435



Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 67 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, NJ-MA012, PA-68-04426 and FL-E87936).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

**Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form**

Laboratory Name: Spectrum Analytical, Inc.

Client: TRC - Windsor, CT

Project Location: MDC - Reservoir #6 (Basin 2)-West

Project Number: 211304.0000.0000

Sampling Date(s):
Hartford, CT

Laboratory Sample ID(s):

11/21/2013 through 11/22/2013

SB80903-01 through SB80903-54

RCP Methods Used:

SW846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes	No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes	No
1B	<i>VPH and EPH methods only:</i> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	Yes	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	✓ Yes	No
3	Were samples received at an appropriate temperature?	✓ Yes	No
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	Yes	✓ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	Yes Yes	✓ No No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	✓ Yes	No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	✓ Yes	No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.



Nicole Leja
Laboratory Director
Date: 12/2/2013

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The samples were received 1.3 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctafluorobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Spikes:

1328688-MS1 *Source: SB80903-44*

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Aroclor-1016
Aroclor-1016 [2C]

1328688-MSD1 *Source: SB80903-44*

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Aroclor-1016
Aroclor-1016 [2C]

Samples:

SB80903-01 *3/4-C-0"*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SW846 8082A

Samples:

SB80903-01 *3/4-C-0"*

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)
4,4-DB-Octafluorobiphenyl (Sr) [2C]
Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

SB80903-11 *18-C-0"*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB80903-16 *16/17-C-0"*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB80903-53 *18-C-CK*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB80903-54 *0/1-C-CK*

Difference between the two GC columns is greater than 40%.

Aroclor-1254

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

4,4-DB-Octafluorobiphenyl (Sr)

Sample Acceptance Check Form

Client: TRC - Windsor, CT
 Project: MDC - Reservoir #6 (Basin 2)-West Hartford, CT / 211304.0000.0000
 Work Order: SB80903
 Sample(s) received on: 11/25/2013
 Received by: Vickie Knowles

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
1. Were custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Were custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Were samples cooled on ice upon transfer to laboratory representative?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Were samples refrigerated upon transfer to laboratory representative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sample Identification

3/4-C-0"

SB80903-01

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

21-Nov-13 11:14

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 3740	D	µg/kg dry	3740	2790	50	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328683	X
11104-28-2	Aroclor-1221	< 3740	D	µg/kg dry	3740	3370	50	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 3740	D	µg/kg dry	3740	2400	50	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 3740	D	µg/kg dry	3740	2250	50	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	132,000	D	µg/kg dry	3740	1640	50	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	200,000	D	µg/kg dry	3740	2190	50	"	"	"	"	"	X
11096-82-5	Aroclor-1260	22,000	D	µg/kg dry	3740	2320	50	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 3740	D	µg/kg dry	3740	3480	50	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 3740	D	µg/kg dry	3740	1540	50	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	87.8			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328753	
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This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

3/4-C-3"

SB80903-02

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

21-Nov-13 11:12

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 70.8		µg/kg dry	70.8	52.9	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	X
11104-28-2	Aroclor-1221	< 70.8		µg/kg dry	70.8	63.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 70.8		µg/kg dry	70.8	45.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 70.8		µg/kg dry	70.8	42.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	6,690		µg/kg dry	70.8	31.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	9,030		µg/kg dry	70.8	41.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	948		µg/kg dry	70.8	35.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 70.8		µg/kg dry	70.8	65.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 70.8		µg/kg dry	70.8	29.2	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	115			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	125			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	89.9	%					1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328753	
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This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

3/4-C-6"

SB80903-03

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

21-Nov-13 11:10

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 65.7		µg/kg dry	65.7	49.1	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	X
11104-28-2	Aroclor-1221	< 65.7		µg/kg dry	65.7	59.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 65.7		µg/kg dry	65.7	42.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 65.7		µg/kg dry	65.7	39.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	4,910		µg/kg dry	65.7	28.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	6,470		µg/kg dry	65.7	38.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	719		µg/kg dry	65.7	40.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 65.7		µg/kg dry	65.7	61.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 65.7		µg/kg dry	65.7	27.1	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	125			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	87.4	%					1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328753	
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Sample Identification

3/4-C-9"

SB80903-04

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

21-Nov-13 11:08

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 72.6		µg/kg dry	72.6	54.2	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	X
11104-28-2	Aroclor-1221	< 72.6		µg/kg dry	72.6	65.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 72.6		µg/kg dry	72.6	46.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 72.6		µg/kg dry	72.6	43.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	1,990		µg/kg dry	72.6	31.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	3,200		µg/kg dry	72.6	42.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	505		µg/kg dry	72.6	36.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 72.6		µg/kg dry	72.6	67.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 72.6		µg/kg dry	72.6	29.9	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	120			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	140			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	87.2			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328753	
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Sample Identification

3/4-C-12"

SB80903-05

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

21-Nov-13 11:06

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 71.0		µg/kg dry	71.0	53.0	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	X
11104-28-2	Aroclor-1221	< 71.0		µg/kg dry	71.0	64.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 71.0		µg/kg dry	71.0	45.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 71.0		µg/kg dry	71.0	42.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	1,690		µg/kg dry	71.0	31.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	2,390		µg/kg dry	71.0	41.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	312		µg/kg dry	71.0	35.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 71.0		µg/kg dry	71.0	66.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 71.0		µg/kg dry	71.0	29.3	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	120			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	135			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	88.2			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328753	
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Sample Identification

0-C-0"

SB80903-06

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

21-Nov-13 11:45

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 69.5		µg/kg dry	69.5	51.9	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	X
11104-28-2	Aroclor-1221	< 69.5		µg/kg dry	69.5	62.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 69.5		µg/kg dry	69.5	44.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 69.5		µg/kg dry	69.5	41.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 69.5		µg/kg dry	69.5	36.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	3,980		µg/kg dry	69.5	57.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 69.5		µg/kg dry	69.5	43.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 69.5		µg/kg dry	69.5	64.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 69.5		µg/kg dry	69.5	28.7	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	93.1		%				1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328753	
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Sample Identification

0-C-3"

SB80903-07

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

21-Nov-13 11:43

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 68.1		µg/kg dry	68.1	50.9	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	X
11104-28-2	Aroclor-1221	< 68.1		µg/kg dry	68.1	61.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 68.1		µg/kg dry	68.1	43.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 68.1		µg/kg dry	68.1	40.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	398		µg/kg dry	68.1	29.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	1,230		µg/kg dry	68.1	39.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 68.1		µg/kg dry	68.1	42.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 68.1		µg/kg dry	68.1	63.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 68.1		µg/kg dry	68.1	28.1	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	115			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	92.6	%					1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328753	
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Sample Identification

0-C-6"

SB80903-08

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

21-Nov-13 11:40

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 66.4		µg/kg dry	66.4	49.6	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	X
11104-28-2	Aroclor-1221	< 66.4		µg/kg dry	66.4	59.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 66.4		µg/kg dry	66.4	42.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 66.4		µg/kg dry	66.4	39.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	378		µg/kg dry	66.4	34.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	1,030		µg/kg dry	66.4	38.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 66.4		µg/kg dry	66.4	41.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 66.4		µg/kg dry	66.4	61.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 66.4		µg/kg dry	66.4	27.4	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	91.1			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328753	
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Sample Identification

0-C-9"

SB80903-09

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

21-Nov-13 11:37

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 58.5		µg/kg dry	58.5	43.7	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	X
11104-28-2	Aroclor-1221	< 58.5		µg/kg dry	58.5	52.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 58.5		µg/kg dry	58.5	37.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 58.5		µg/kg dry	58.5	35.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	155		µg/kg dry	58.5	25.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	451		µg/kg dry	58.5	48.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 58.5		µg/kg dry	58.5	36.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 58.5		µg/kg dry	58.5	54.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 58.5		µg/kg dry	58.5	24.1	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	65			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	65			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	92.5			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328753	
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Sample Identification

0-C-12"

SB80903-10

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

21-Nov-13 11:35

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 69.2		µg/kg dry	69.2	51.7	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	X
11104-28-2	Aroclor-1221	< 69.2		µg/kg dry	69.2	62.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 69.2		µg/kg dry	69.2	44.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 69.2		µg/kg dry	69.2	41.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	367		µg/kg dry	69.2	36.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	806		µg/kg dry	69.2	40.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 69.2		µg/kg dry	69.2	42.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 69.2		µg/kg dry	69.2	64.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 69.2		µg/kg dry	69.2	28.5	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	110			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	91.8			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328753	
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Sample Identification

18-C-0"

SB80903-11

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
21-Nov-13 12:33

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GC

Polychlorinated Biphenyls

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 697	D	µg/kg dry	697	521	10	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328683	X
11104-28-2	Aroclor-1221	< 697	D	µg/kg dry	697	628	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 697	D	µg/kg dry	697	447	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 697	D	µg/kg dry	697	419	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 697	D	µg/kg dry	697	362	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 697	D	µg/kg dry	697	581	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	20,500	D	µg/kg dry	697	349	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 697	D	µg/kg dry	697	649	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 697	D	µg/kg dry	697	288	10	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	89.9			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328753	
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Sample Identification

18-C-3"

SB80903-12

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

21-Nov-13 12:30

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 72.5		µg/kg dry	72.5	54.1	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	X
11104-28-2	Aroclor-1221	< 72.5		µg/kg dry	72.5	65.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 72.5		µg/kg dry	72.5	46.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 72.5		µg/kg dry	72.5	43.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 72.5		µg/kg dry	72.5	37.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	141		µg/kg dry	72.5	42.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	145		µg/kg dry	72.5	44.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 72.5		µg/kg dry	72.5	67.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 72.5		µg/kg dry	72.5	29.9	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	120			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	91.7			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	
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Sample Identification

18-C-6"

SB80903-13

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
21-Nov-13 12:28

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 75.4		µg/kg dry	75.4	56.4	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	X
11104-28-2	Aroclor-1221	< 75.4		µg/kg dry	75.4	68.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 75.4		µg/kg dry	75.4	48.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 75.4		µg/kg dry	75.4	45.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 75.4		µg/kg dry	75.4	39.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	< 75.4		µg/kg dry	75.4	44.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 75.4		µg/kg dry	75.4	46.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 75.4		µg/kg dry	75.4	70.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 75.4		µg/kg dry	75.4	31.1	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	120			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	88.2	%					1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	
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Sample Identification

18-C-9"

SB80903-14

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
21-Nov-13 12:26

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 68.6		µg/kg dry	68.6	51.3	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	X
11104-28-2	Aroclor-1221	< 68.6		µg/kg dry	68.6	61.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 68.6		µg/kg dry	68.6	44.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 68.6		µg/kg dry	68.6	41.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 68.6		µg/kg dry	68.6	35.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	124		µg/kg dry	68.6	57.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	103		µg/kg dry	68.6	34.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 68.6		µg/kg dry	68.6	63.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 68.6		µg/kg dry	68.6	28.3	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	120			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	90.0			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	
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Sample Identification

18-C-12"

SB80903-15

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

21-Nov-13 12:22

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 73.0		µg/kg dry	73.0	54.5	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	X
11104-28-2	Aroclor-1221	< 73.0		µg/kg dry	73.0	65.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 73.0		µg/kg dry	73.0	46.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 73.0		µg/kg dry	73.0	43.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 73.0		µg/kg dry	73.0	37.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	< 73.0		µg/kg dry	73.0	42.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 73.0		µg/kg dry	73.0	45.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 73.0		µg/kg dry	73.0	68.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 73.0		µg/kg dry	73.0	30.1	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	115			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	89.7	%					1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	
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Sample Identification

16/17-C-0"
SB80903-16

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
21-Nov-13 13:47

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GC

Polychlorinated Biphenyls

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 764	D	µg/kg dry	764	571	10	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328683	X
11104-28-2	Aroclor-1221	< 764	D	µg/kg dry	764	688	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 764	D	µg/kg dry	764	490	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 764	D	µg/kg dry	764	460	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	10,700	D	µg/kg dry	764	335	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 764	D	µg/kg dry	764	637	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	22,800	D	µg/kg dry	764	382	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 764	D	µg/kg dry	764	712	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 764	D	µg/kg dry	764	315	10	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	50			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	86.3			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	
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Sample Identification

16/17-C-3"
SB80903-17

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
21-Nov-13 13:45

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 74.7		µg/kg dry	74.7	55.8	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	X
11104-28-2	Aroclor-1221	< 74.7		µg/kg dry	74.7	67.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 74.7		µg/kg dry	74.7	48.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 74.7		µg/kg dry	74.7	45.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	602		µg/kg dry	74.7	32.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 74.7		µg/kg dry	74.7	62.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	1,170		µg/kg dry	74.7	37.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 74.7		µg/kg dry	74.7	69.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 74.7		µg/kg dry	74.7	30.8	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	60			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	60			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	85.5	%					1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	
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Sample Identification

16/17-C-6"
SB80903-18

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
21-Nov-13 13:43

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 73.3		µg/kg dry	73.3	54.8	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	X
11104-28-2	Aroclor-1221	< 73.3		µg/kg dry	73.3	66.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 73.3		µg/kg dry	73.3	47.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 73.3		µg/kg dry	73.3	44.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	352		µg/kg dry	73.3	38.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 73.3		µg/kg dry	73.3	61.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	418		µg/kg dry	73.3	45.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 73.3		µg/kg dry	73.3	68.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 73.3		µg/kg dry	73.3	30.2	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	85.5			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	
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Sample Identification

16/17-C-9"
SB80903-19

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
21-Nov-13 13:40

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 73.6		µg/kg dry	73.6	55.0	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	X
11104-28-2	Aroclor-1221	< 73.6		µg/kg dry	73.6	66.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 73.6		µg/kg dry	73.6	47.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 73.6		µg/kg dry	73.6	44.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	140		µg/kg dry	73.6	38.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 73.6		µg/kg dry	73.6	61.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	166		µg/kg dry	73.6	45.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 73.6		µg/kg dry	73.6	68.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 73.6		µg/kg dry	73.6	30.4	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	110			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	85.8			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	
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Sample Identification

16/17-C-12"

SB80903-20

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

21-Nov-13 13:38

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 73.3		µg/kg dry	73.3	54.7	1	SW846 8082A	25-Nov-13	26-Nov-13	IMR	1328683	X
11104-28-2	Aroclor-1221	< 73.3		µg/kg dry	73.3	66.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 73.3		µg/kg dry	73.3	47.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 73.3		µg/kg dry	73.3	44.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	91.6		µg/kg dry	73.3	32.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 73.3		µg/kg dry	73.3	61.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	216		µg/kg dry	73.3	45.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 73.3		µg/kg dry	73.3	68.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 73.3		µg/kg dry	73.3	30.2	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	70			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	86.4			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	
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This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

16-C-0"

SB80903-21

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
21-Nov-13 14:18

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 72.0		µg/kg dry	72.0	53.8	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	X
11104-28-2	Aroclor-1221	< 72.0		µg/kg dry	72.0	64.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 72.0		µg/kg dry	72.0	46.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 72.0		µg/kg dry	72.0	43.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	202		µg/kg dry	72.0	31.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 72.0		µg/kg dry	72.0	60.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 72.0		µg/kg dry	72.0	44.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 72.0		µg/kg dry	72.0	67.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 72.0		µg/kg dry	72.0	29.7	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	90.4			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	
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Sample Identification

16-C-3"

SB80903-22

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
21-Nov-13 14:15

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 71.9		µg/kg dry	71.9	53.7	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	X
11104-28-2	Aroclor-1221	< 71.9		µg/kg dry	71.9	64.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 71.9		µg/kg dry	71.9	46.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 71.9		µg/kg dry	71.9	43.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	86.3		µg/kg dry	71.9	37.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 71.9		µg/kg dry	71.9	59.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 71.9		µg/kg dry	71.9	44.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 71.9		µg/kg dry	71.9	67.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 71.9		µg/kg dry	71.9	29.7	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	89.9			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	
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Sample Identification

16-C-6"

SB80903-23

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
21-Nov-13 14:13

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 72.5		µg/kg dry	72.5	54.2	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	X
11104-28-2	Aroclor-1221	< 72.5		µg/kg dry	72.5	65.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 72.5		µg/kg dry	72.5	46.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 72.5		µg/kg dry	72.5	43.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 72.5		µg/kg dry	72.5	37.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 72.5		µg/kg dry	72.5	60.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 72.5		µg/kg dry	72.5	45.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 72.5		µg/kg dry	72.5	67.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 72.5		µg/kg dry	72.5	29.9	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	89.5			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	
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Sample Identification

16-C-9"

SB80903-24

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
21-Nov-13 14:10

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 60.4		µg/kg dry	60.4	45.1	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	X
11104-28-2	Aroclor-1221	< 60.4		µg/kg dry	60.4	54.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 60.4		µg/kg dry	60.4	38.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 60.4		µg/kg dry	60.4	36.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 60.4		µg/kg dry	60.4	31.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 60.4		µg/kg dry	60.4	50.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 60.4		µg/kg dry	60.4	37.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 60.4		µg/kg dry	60.4	56.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 60.4		µg/kg dry	60.4	24.9	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	89.6			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	
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Sample Identification

16-C-12"

SB80903-25

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

21-Nov-13 14:07

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 62.7		µg/kg dry	62.7	46.9	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	X
11104-28-2	Aroclor-1221	< 62.7		µg/kg dry	62.7	56.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 62.7		µg/kg dry	62.7	40.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 62.7		µg/kg dry	62.7	37.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	329		µg/kg dry	62.7	27.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	358		µg/kg dry	62.7	52.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 62.7		µg/kg dry	62.7	38.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 62.7		µg/kg dry	62.7	58.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 62.7		µg/kg dry	62.7	25.9	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	93.5			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	
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Sample Identification

5-C-0"

SB80903-26

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

22-Nov-13 08:45

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 60.1		µg/kg dry	60.1	44.9	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	X
11104-28-2	Aroclor-1221	< 60.1		µg/kg dry	60.1	54.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 60.1		µg/kg dry	60.1	38.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 60.1		µg/kg dry	60.1	36.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	132		µg/kg dry	60.1	26.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 60.1		µg/kg dry	60.1	50.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 60.1		µg/kg dry	60.1	37.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 60.1		µg/kg dry	60.1	56.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 60.1		µg/kg dry	60.1	24.8	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	75			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	92.4			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	
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Sample Identification

5-C-3"

SB80903-27

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

22-Nov-13 08:42

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 68.7		µg/kg dry	68.7	51.3	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	X
11104-28-2	Aroclor-1221	< 68.7		µg/kg dry	68.7	61.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 68.7		µg/kg dry	68.7	44.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 68.7		µg/kg dry	68.7	41.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	161		µg/kg dry	68.7	35.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 68.7		µg/kg dry	68.7	57.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 68.7		µg/kg dry	68.7	42.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 68.7		µg/kg dry	68.7	64.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 68.7		µg/kg dry	68.7	28.3	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	70			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	70			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	70			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	75			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	92.6			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	
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Sample Identification

5-C-6"

SB80903-28

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

22-Nov-13 08:39

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 58.0		µg/kg dry	58.0	43.3	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	X
11104-28-2	Aroclor-1221	< 58.0		µg/kg dry	58.0	52.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 58.0		µg/kg dry	58.0	37.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 58.0		µg/kg dry	58.0	34.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 58.0		µg/kg dry	58.0	30.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 58.0		µg/kg dry	58.0	48.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 58.0		µg/kg dry	58.0	35.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 58.0		µg/kg dry	58.0	54.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 58.0		µg/kg dry	58.0	23.9	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	70			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	115			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	93.2			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	
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Sample Identification

5-C-9"

SB80903-29

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

22-Nov-13 08:36

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 58.3		µg/kg dry	58.3	43.5	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	X
11104-28-2	Aroclor-1221	< 58.3		µg/kg dry	58.3	52.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 58.3		µg/kg dry	58.3	37.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 58.3		µg/kg dry	58.3	35.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	163		µg/kg dry	58.3	30.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 58.3		µg/kg dry	58.3	48.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 58.3		µg/kg dry	58.3	36.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 58.3		µg/kg dry	58.3	54.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 58.3		µg/kg dry	58.3	24.0	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	92.8			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	
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Sample Identification

5-C-12"

SB80903-30

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

22-Nov-13 08:34

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 60.3		µg/kg dry	60.3	45.0	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	X
11104-28-2	Aroclor-1221	< 60.3		µg/kg dry	60.3	54.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 60.3		µg/kg dry	60.3	38.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 60.3		µg/kg dry	60.3	36.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	826		µg/kg dry	60.3	26.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 60.3		µg/kg dry	60.3	50.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 60.3		µg/kg dry	60.3	37.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 60.3		µg/kg dry	60.3	56.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 60.3		µg/kg dry	60.3	24.9	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	93.1			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	
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Sample Identification

5-C-3"D

SB80903-31

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

22-Nov-13 09:00

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 57.9		µg/kg dry	57.9	43.2	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	X
11104-28-2	Aroclor-1221	< 57.9		µg/kg dry	57.9	52.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 57.9		µg/kg dry	57.9	37.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 57.9		µg/kg dry	57.9	34.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	92.6		µg/kg dry	57.9	30.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 57.9		µg/kg dry	57.9	48.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 57.9		µg/kg dry	57.9	35.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 57.9		µg/kg dry	57.9	53.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 57.9		µg/kg dry	57.9	23.9	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	95.2			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328754	
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Sample Identification

5-C-6"D

SB80903-32

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

22-Nov-13 09:10

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 60.9		µg/kg dry	60.9	45.5	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	X
11104-28-2	Aroclor-1221	< 60.9		µg/kg dry	60.9	54.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 60.9		µg/kg dry	60.9	39.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 60.9		µg/kg dry	60.9	36.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	222		µg/kg dry	60.9	31.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 60.9		µg/kg dry	60.9	50.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 60.9		µg/kg dry	60.9	37.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 60.9		µg/kg dry	60.9	56.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 60.9		µg/kg dry	60.9	25.1	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	96.1			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	
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Sample Identification

3/4-I-0"

SB80903-33

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

22-Nov-13 09:40

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 68.7		µg/kg dry	68.7	51.3	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	X
11104-28-2	Aroclor-1221	< 68.7		µg/kg dry	68.7	61.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 68.7		µg/kg dry	68.7	44.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 68.7		µg/kg dry	68.7	41.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	175		µg/kg dry	68.7	30.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	151		µg/kg dry	68.7	40.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	85.9		µg/kg dry	68.7	34.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 68.7		µg/kg dry	68.7	64.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 68.7		µg/kg dry	68.7	28.3	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	87.2	%					1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	
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Sample Identification

3/4-I-3"

SB80903-34

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

22-Nov-13 09:37

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 76.9		µg/kg dry	76.9	57.5	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	X
11104-28-2	Aroclor-1221	< 76.9		µg/kg dry	76.9	69.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 76.9		µg/kg dry	76.9	49.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 76.9		µg/kg dry	76.9	46.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	154		µg/kg dry	76.9	33.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	135		µg/kg dry	76.9	64.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 76.9		µg/kg dry	76.9	47.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 76.9		µg/kg dry	76.9	71.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 76.9		µg/kg dry	76.9	31.7	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	70			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	75			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	86.1			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	
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Sample Identification

3/4-I-6"

SB80903-35

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

22-Nov-13 09:34

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 69.2		µg/kg dry	69.2	51.7	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	X
11104-28-2	Aroclor-1221	< 69.2		µg/kg dry	69.2	62.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 69.2		µg/kg dry	69.2	44.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 69.2		µg/kg dry	69.2	41.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	235		µg/kg dry	69.2	30.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	228		µg/kg dry	69.2	40.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 69.2		µg/kg dry	69.2	42.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 69.2		µg/kg dry	69.2	64.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 69.2		µg/kg dry	69.2	28.5	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	120			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	86.8			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	
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Sample Identification

9-J-0"

SB80903-36

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

22-Nov-13 10:10

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 74.2		µg/kg dry	74.2	55.4	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	X
11104-28-2	Aroclor-1221	< 74.2		µg/kg dry	74.2	66.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 74.2		µg/kg dry	74.2	47.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 74.2		µg/kg dry	74.2	44.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 74.2		µg/kg dry	74.2	38.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 74.2		µg/kg dry	74.2	61.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 74.2		µg/kg dry	74.2	46.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 74.2		µg/kg dry	74.2	69.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 74.2		µg/kg dry	74.2	30.6	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	89.4	%					1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	
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Sample Identification

9-J-3"

SB80903-37

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

22-Nov-13 10:07

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 71.8		µg/kg dry	71.8	53.6	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	X
11104-28-2	Aroclor-1221	< 71.8		µg/kg dry	71.8	64.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 71.8		µg/kg dry	71.8	46.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 71.8		µg/kg dry	71.8	43.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	144		µg/kg dry	71.8	37.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 71.8		µg/kg dry	71.8	59.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 71.8		µg/kg dry	71.8	44.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 71.8		µg/kg dry	71.8	66.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 71.8		µg/kg dry	71.8	29.6	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	91.6			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	
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Sample Identification

9-J-6"

SB80903-38

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

22-Nov-13 10:03

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 67.2		µg/kg dry	67.2	50.2	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	X
11104-28-2	Aroclor-1221	< 67.2		µg/kg dry	67.2	60.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 67.2		µg/kg dry	67.2	43.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 67.2		µg/kg dry	67.2	40.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	104		µg/kg dry	67.2	29.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 67.2		µg/kg dry	67.2	56.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 67.2		µg/kg dry	67.2	41.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 67.2		µg/kg dry	67.2	62.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 67.2		µg/kg dry	67.2	27.7	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	89.7			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	
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Sample Identification

9-J-3"D

SB80903-39

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
22-Nov-13 10:29

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 59.9		µg/kg dry	59.9	44.7	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	X
11104-28-2	Aroclor-1221	< 59.9		µg/kg dry	59.9	54.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 59.9		µg/kg dry	59.9	38.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 59.9		µg/kg dry	59.9	36.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 59.9		µg/kg dry	59.9	31.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 59.9		µg/kg dry	59.9	49.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 59.9		µg/kg dry	59.9	37.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 59.9		µg/kg dry	59.9	55.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 59.9		µg/kg dry	59.9	24.7	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	120			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	96.2			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	
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Sample Identification

9-J-6"D

SB80903-40

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
22-Nov-13 10:25

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 67.4		µg/kg dry	67.4	50.3	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328684	X
11104-28-2	Aroclor-1221	< 67.4		µg/kg dry	67.4	60.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 67.4		µg/kg dry	67.4	43.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 67.4		µg/kg dry	67.4	40.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 67.4		µg/kg dry	67.4	35.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 67.4		µg/kg dry	67.4	56.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 67.4		µg/kg dry	67.4	41.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 67.4		µg/kg dry	67.4	62.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 67.4		µg/kg dry	67.4	27.8	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	115			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	95.9			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	
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Sample Identification

7/8-W/A-0"

SB80903-41

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
22-Nov-13 11:15

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 74.3		µg/kg dry	74.3	55.5	1	SW846 8082A	26-Nov-13	27-Nov-13	IMR	1328688	X
11104-28-2	Aroclor-1221	< 74.3		µg/kg dry	74.3	66.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 74.3		µg/kg dry	74.3	47.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 74.3		µg/kg dry	74.3	44.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	249		µg/kg dry	74.3	32.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	223		µg/kg dry	74.3	61.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	100		µg/kg dry	74.3	46.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 74.3		µg/kg dry	74.3	69.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 74.3		µg/kg dry	74.3	30.6	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	35			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	40			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	40			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	45			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	85.4	%					1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	
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Sample Identification

7/8-W/A-3"

SB80903-42

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
22-Nov-13 11:11

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 70.8		µg/kg dry	70.8	52.9	1	SW846 8082A	26-Nov-13	27-Nov-13	IMR	1328688	X
11104-28-2	Aroclor-1221	< 70.8		µg/kg dry	70.8	63.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 70.8		µg/kg dry	70.8	45.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 70.8		µg/kg dry	70.8	42.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	227		µg/kg dry	70.8	31.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	343		µg/kg dry	70.8	59.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	156		µg/kg dry	70.8	43.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 70.8		µg/kg dry	70.8	66.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 70.8		µg/kg dry	70.8	29.2	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	30			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	35			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	35			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	40			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	86.6			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	
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Sample Identification

7/8-W/A-6"
SB80903-43

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
22-Nov-13 11:04

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 75.4		µg/kg dry	75.4	56.4	1	SW846 8082A	26-Nov-13	30-Nov-13	BLM	1328688	X
11104-28-2	Aroclor-1221	< 75.4		µg/kg dry	75.4	68.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 75.4		µg/kg dry	75.4	48.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 75.4		µg/kg dry	75.4	45.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 75.4		µg/kg dry	75.4	39.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	532		µg/kg dry	75.4	62.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	124		µg/kg dry	75.4	37.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 75.4		µg/kg dry	75.4	70.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 75.4		µg/kg dry	75.4	31.1	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	45			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	50			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	50			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	86.3			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	
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Sample Identification

3/4-C-3"D	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB80903-44	211304.0000.0000	Concrete	22-Nov-13 11:40	25-Nov-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 68.7		µg/kg dry	68.7	51.4	1	SW846 8082A	26-Nov-13	30-Nov-13	BLM	1328688	X
11104-28-2	Aroclor-1221	< 68.7		µg/kg dry	68.7	61.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 68.7		µg/kg dry	68.7	44.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 68.7		µg/kg dry	68.7	41.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	8,420		µg/kg dry	68.7	35.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	10,700		µg/kg dry	68.7	40.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	1,340		µg/kg dry	68.7	34.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 68.7		µg/kg dry	68.7	64.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 68.7		µg/kg dry	68.7	28.4	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	45			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	50			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	55			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	60			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	95.8	%					1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	
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Sample Identification

3/4-C-6"D	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB80903-45	211304.0000.0000	Concrete	22-Nov-13 11:37	25-Nov-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 68.4		µg/kg dry	68.4	51.1	1	SW846 8082A	26-Nov-13	30-Nov-13	BLM	1328688	X
11104-28-2	Aroclor-1221	< 68.4		µg/kg dry	68.4	61.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 68.4		µg/kg dry	68.4	43.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 68.4		µg/kg dry	68.4	41.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	1,250		µg/kg dry	68.4	35.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	1,600		µg/kg dry	68.4	40.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	167		µg/kg dry	68.4	42.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 68.4		µg/kg dry	68.4	63.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 68.4		µg/kg dry	68.4	28.2	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	35			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	35			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	40			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	40			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	94.2	%					1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	
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Sample Identification

0-C-3"D

SB80903-46

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

22-Nov-13 13:26

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 67.0		µg/kg dry	67.0	50.0	1	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	X
11104-28-2	Aroclor-1221	< 67.0		µg/kg dry	67.0	60.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 67.0		µg/kg dry	67.0	43.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 67.0		µg/kg dry	67.0	40.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	375		µg/kg dry	67.0	34.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	733		µg/kg dry	67.0	39.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	244		µg/kg dry	67.0	33.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 67.0		µg/kg dry	67.0	62.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 67.0		µg/kg dry	67.0	27.6	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	30			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	35			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	35			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	35			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	95.6			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	
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This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

0-C-6"D

SB80903-47

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

22-Nov-13 13:30

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 66.7		µg/kg dry	66.7	49.9	1	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	X
11104-28-2	Aroclor-1221	< 66.7		µg/kg dry	66.7	60.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 66.7		µg/kg dry	66.7	42.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 66.7		µg/kg dry	66.7	40.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	297		µg/kg dry	66.7	34.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	447		µg/kg dry	66.7	39.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	< 66.7		µg/kg dry	66.7	33.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 66.7		µg/kg dry	66.7	62.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 66.7		µg/kg dry	66.7	27.5	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	30			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	30			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	30			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	35			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	95.8			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	
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Sample Identification

0/1-C-0"

SB80903-48

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

22-Nov-13 14:17

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 64.3		µg/kg dry	64.3	48.0	1	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	X
11104-28-2	Aroclor-1221	< 64.3		µg/kg dry	64.3	57.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 64.3		µg/kg dry	64.3	41.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 64.3		µg/kg dry	64.3	38.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 64.3		µg/kg dry	64.3	33.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	86.7		µg/kg dry	64.3	37.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 64.3		µg/kg dry	64.3	39.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 64.3		µg/kg dry	64.3	59.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 64.3		µg/kg dry	64.3	26.5	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	30			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	30			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	35			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	35			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	95.4			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	
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Sample Identification

0/1-C-3"

SB80903-49

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

22-Nov-13 14:13

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 66.0		µg/kg dry	66.0	49.3	1	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	X
11104-28-2	Aroclor-1221	< 66.0		µg/kg dry	66.0	59.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 66.0		µg/kg dry	66.0	42.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 66.0		µg/kg dry	66.0	39.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 66.0		µg/kg dry	66.0	34.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	79.2		µg/kg dry	66.0	55.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 66.0		µg/kg dry	66.0	40.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 66.0		µg/kg dry	66.0	61.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 66.0		µg/kg dry	66.0	27.2	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	35			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	35			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	40			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	45			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	95.7			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	
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Sample Identification

0/1-C-6"

SB80903-50

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

22-Nov-13 14:10

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 68.2		µg/kg dry	68.2	50.9	1	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	X
11104-28-2	Aroclor-1221	< 68.2		µg/kg dry	68.2	61.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 68.2		µg/kg dry	68.2	43.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 68.2		µg/kg dry	68.2	41.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 68.2		µg/kg dry	68.2	35.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	113		µg/kg dry	68.2	39.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	71.6		µg/kg dry	68.2	42.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 68.2		µg/kg dry	68.2	63.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 68.2		µg/kg dry	68.2	28.1	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	50			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	55			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	55			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	94.3			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	
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Sample Identification

0/1-C-9"

SB80903-51

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

22-Nov-13 14:07

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 63.3		µg/kg dry	63.3	47.3	1	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	X
11104-28-2	Aroclor-1221	< 63.3		µg/kg dry	63.3	57.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 63.3		µg/kg dry	63.3	40.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 63.3		µg/kg dry	63.3	38.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 63.3		µg/kg dry	63.3	32.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	91.8		µg/kg dry	63.3	37.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 63.3		µg/kg dry	63.3	39.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 63.3		µg/kg dry	63.3	59.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 63.3		µg/kg dry	63.3	26.1	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	40			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	40			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	40			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	40			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	95.2			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328755	
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Sample Identification

0/1-C-12"

SB80903-52

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

22-Nov-13 14:04

Received

25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 72.6		µg/kg dry	72.6	54.3	1	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	X
11104-28-2	Aroclor-1221	< 72.6		µg/kg dry	72.6	65.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 72.6		µg/kg dry	72.6	46.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 72.6		µg/kg dry	72.6	43.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 72.6		µg/kg dry	72.6	37.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	98.0		µg/kg dry	72.6	60.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	72.6		µg/kg dry	72.6	36.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 72.6		µg/kg dry	72.6	67.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 72.6		µg/kg dry	72.6	30.0	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	30			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	30			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	30			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	30			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	73.7			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	
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Sample Identification**18-C-CK**

SB80903-53

Client Project #
211304.0000.0000

Matrix
Cork

Collection Date/Time
22-Nov-13 11:00

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GC

Polychlorinated Biphenyls

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 2460	D	µg/kg dry	2460	1840	10	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	X
11104-28-2	Aroclor-1221	< 2460	D	µg/kg dry	2460	2220	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 2460	D	µg/kg dry	2460	1580	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 2460	D	µg/kg dry	2460	1480	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	37,800	D	µg/kg dry	2460	1080	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	53,100	D	µg/kg dry	2460	1440	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	106,000	D	µg/kg dry	2460	1230	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 2460	D	µg/kg dry	2460	2290	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 2460	D	µg/kg dry	2460	1010	10	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	150			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	26.6			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	
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Sample Identification

0/1-C-CK	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB80903-54	211304.0000.0000	Cork	22-Nov-13 14:20	25-Nov-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 209		µg/kg dry	209	156	1	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	X
11104-28-2	Aroclor-1221	< 209		µg/kg dry	209	188	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 209		µg/kg dry	209	134	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 209		µg/kg dry	209	125	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 209		µg/kg dry	209	108	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	1,930	P	µg/kg dry	209	174	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 209		µg/kg dry	209	129	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 209		µg/kg dry	209	194	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 209		µg/kg dry	209	86.0	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	1480	S02		30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	105			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	115			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	26.7	%					1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	
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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328683 - SW846 3540C										
Blank (1328683-BLK1)					Prepared: 25-Nov-13 Analyzed: 26-Nov-13					
Aroclor-1016	< 64.5		µg/kg wet	64.5						
Aroclor-1016 [2C]	< 64.5		µg/kg wet	64.5						
Aroclor-1221	< 64.5		µg/kg wet	64.5						
Aroclor-1221 [2C]	< 64.5		µg/kg wet	64.5						
Aroclor-1232	< 64.5		µg/kg wet	64.5						
Aroclor-1232 [2C]	< 64.5		µg/kg wet	64.5						
Aroclor-1242	< 64.5		µg/kg wet	64.5						
Aroclor-1242 [2C]	< 64.5		µg/kg wet	64.5						
Aroclor-1248	< 64.5		µg/kg wet	64.5						
Aroclor-1248 [2C]	< 64.5		µg/kg wet	64.5						
Aroclor-1254	< 64.5		µg/kg wet	64.5						
Aroclor-1254 [2C]	< 64.5		µg/kg wet	64.5						
Aroclor-1260	< 64.5		µg/kg wet	64.5						
Aroclor-1260 [2C]	< 64.5		µg/kg wet	64.5						
Aroclor-1262	< 64.5		µg/kg wet	64.5						
Aroclor-1262 [2C]	< 64.5		µg/kg wet	64.5						
Aroclor-1268	< 64.5		µg/kg wet	64.5						
Aroclor-1268 [2C]	< 64.5		µg/kg wet	64.5						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	58.0		µg/kg wet		64.5		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	64.5		µg/kg wet		64.5		100	30-150		
Surrogate: Decachlorobiphenyl (Sr)	74.1		µg/kg wet		64.5		115	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	70.9		µg/kg wet		64.5		110	30-150		
LCS (1328683-BS1)					Prepared: 25-Nov-13 Analyzed: 26-Nov-13					
Aroclor-1016	854		µg/kg wet	61.7	771		111	40-140		
Aroclor-1016 [2C]	925		µg/kg wet	61.7	771		120	40-140		
Aroclor-1260	869		µg/kg wet	61.7	771		113	40-140		
Aroclor-1260 [2C]	876		µg/kg wet	61.7	771		114	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	58.6		µg/kg wet		61.7		95	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	61.7		µg/kg wet		61.7		100	30-150		
Surrogate: Decachlorobiphenyl (Sr)	74.0		µg/kg wet		61.7		120	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	77.1		µg/kg wet		61.7		125	30-150		
LCS Dup (1328683-BSD1)					Prepared: 25-Nov-13 Analyzed: 26-Nov-13					
Aroclor-1016	969		µg/kg wet	66.6	833		116	40-140	5	30
Aroclor-1016 [2C]	982		µg/kg wet	66.6	833		118	40-140	2	30
Aroclor-1260	962		µg/kg wet	66.6	833		116	40-140	2	30
Aroclor-1260 [2C]	1030		µg/kg wet	66.6	833		124	40-140	8	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	69.9		µg/kg wet		66.6		105	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	69.9		µg/kg wet		66.6		105	30-150		
Surrogate: Decachlorobiphenyl (Sr)	79.9		µg/kg wet		66.6		120	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	93.3		µg/kg wet		66.6		140	30-150		
Duplicate (1328683-DUP1)					Source: SB80903-10 Prepared: 25-Nov-13 Analyzed: 26-Nov-13					
Aroclor-1016	< 70.1		µg/kg dry	70.1		BRL				30
Aroclor-1016 [2C]	< 70.1		µg/kg dry	70.1		BRL				30
Aroclor-1221	< 70.1		µg/kg dry	70.1		BRL				30
Aroclor-1221 [2C]	< 70.1		µg/kg dry	70.1		BRL				30
Aroclor-1232	< 70.1		µg/kg dry	70.1		BRL				30
Aroclor-1232 [2C]	< 70.1		µg/kg dry	70.1		BRL				30
Aroclor-1242	< 70.1		µg/kg dry	70.1		BRL				30
Aroclor-1242 [2C]	< 70.1		µg/kg dry	70.1		BRL				30
Aroclor-1248	316		µg/kg dry	70.1		367			15	30

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328683 - SW846 3540C										
<u>Duplicate (1328683-DUP1)</u>										
				Source: SB80903-10				Prepared: 25-Nov-13 Analyzed: 26-Nov-13		
Aroclor-1248 [2C]	326		µg/kg dry	70.1		353			8	30
Aroclor-1254	638		µg/kg dry	70.1		785			21	30
Aroclor-1254 [2C]	659		µg/kg dry	70.1		806			20	30
Aroclor-1260	< 70.1		µg/kg dry	70.1		BRL				30
Aroclor-1260 [2C]	< 70.1		µg/kg dry	70.1		BRL				30
Aroclor-1262	< 70.1		µg/kg dry	70.1		BRL				30
Aroclor-1262 [2C]	< 70.1		µg/kg dry	70.1		BRL				30
Aroclor-1268	< 70.1		µg/kg dry	70.1		BRL				30
Aroclor-1268 [2C]	< 70.1		µg/kg dry	70.1		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	56.1		µg/kg dry		70.1		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	59.6		µg/kg dry		70.1		85	30-150		
Surrogate: Decachlorobiphenyl (Sr)	66.6		µg/kg dry		70.1		95	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	73.6		µg/kg dry		70.1		105	30-150		
<u>Matrix Spike (1328683-MS1)</u>										
				Source: SB80903-10				Prepared: 25-Nov-13 Analyzed: 26-Nov-13		
Aroclor-1016	817		µg/kg dry	64.6	807	BRL	101	40-140		
Aroclor-1016 [2C]	775		µg/kg dry	64.6	807	BRL	96	40-140		
Aroclor-1260	675		µg/kg dry	64.6	807	BRL	84	40-140		
Aroclor-1260 [2C]	694		µg/kg dry	64.6	807	BRL	86	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	48.4		µg/kg dry		64.6		75	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	48.4		µg/kg dry		64.6		75	30-150		
Surrogate: Decachlorobiphenyl (Sr)	58.1		µg/kg dry		64.6		90	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	61.4		µg/kg dry		64.6		95	30-150		
<u>Matrix Spike Dup (1328683-MSD1)</u>										
				Source: SB80903-10				Prepared: 25-Nov-13 Analyzed: 26-Nov-13		
Aroclor-1016	739		µg/kg dry	62.3	779	BRL	95	40-140	7	30
Aroclor-1016 [2C]	773		µg/kg dry	62.3	779	BRL	99	40-140	3	30
Aroclor-1260	867		µg/kg dry	62.3	779	BRL	111	40-140	28	30
Aroclor-1260 [2C]	842		µg/kg dry	62.3	779	BRL	108	40-140	23	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	56.1		µg/kg dry		62.3		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	56.1		µg/kg dry		62.3		90	30-150		
Surrogate: Decachlorobiphenyl (Sr)	62.3		µg/kg dry		62.3		100	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	68.6		µg/kg dry		62.3		110	30-150		
Batch 1328684 - SW846 3540C										
<u>Blank (1328684-BLK1)</u>										
								Prepared: 25-Nov-13 Analyzed: 27-Nov-13		
Aroclor-1016	< 61.4		µg/kg wet	61.4						
Aroclor-1016 [2C]	< 61.4		µg/kg wet	61.4						
Aroclor-1221	< 61.4		µg/kg wet	61.4						
Aroclor-1221 [2C]	< 61.4		µg/kg wet	61.4						
Aroclor-1232	< 61.4		µg/kg wet	61.4						
Aroclor-1232 [2C]	< 61.4		µg/kg wet	61.4						
Aroclor-1242	< 61.4		µg/kg wet	61.4						
Aroclor-1242 [2C]	< 61.4		µg/kg wet	61.4						
Aroclor-1248	< 61.4		µg/kg wet	61.4						
Aroclor-1248 [2C]	< 61.4		µg/kg wet	61.4						
Aroclor-1254	< 61.4		µg/kg wet	61.4						
Aroclor-1254 [2C]	< 61.4		µg/kg wet	61.4						
Aroclor-1260	< 61.4		µg/kg wet	61.4						
Aroclor-1260 [2C]	< 61.4		µg/kg wet	61.4						
Aroclor-1262	< 61.4		µg/kg wet	61.4						
Aroclor-1262 [2C]	< 61.4		µg/kg wet	61.4						
Aroclor-1268	< 61.4		µg/kg wet	61.4						

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328684 - SW846 3540C										
Blank (1328684-BLK1)					Prepared: 25-Nov-13 Analyzed: 27-Nov-13					
Aroclor-1268 [2C]	< 61.4		µg/kg wet	61.4						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	49.1		µg/kg wet		61.4		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	52.2		µg/kg wet		61.4		85	30-150		
Surrogate: Decachlorobiphenyl (Sr)	46.0		µg/kg wet		61.4		75	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	46.0		µg/kg wet		61.4		75	30-150		
LCS (1328684-BS1)					Prepared: 25-Nov-13 Analyzed: 27-Nov-13					
Aroclor-1016	700		µg/kg wet	63.3	792		88	40-140		
Aroclor-1016 [2C]	807		µg/kg wet	63.3	792		102	40-140		
Aroclor-1260	627		µg/kg wet	63.3	792		79	40-140		
Aroclor-1260 [2C]	630		µg/kg wet	63.3	792		80	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	50.7		µg/kg wet		63.3		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	50.7		µg/kg wet		63.3		80	30-150		
Surrogate: Decachlorobiphenyl (Sr)	50.7		µg/kg wet		63.3		80	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	53.8		µg/kg wet		63.3		85	30-150		
LCS Dup (1328684-BSD1)					Prepared: 25-Nov-13 Analyzed: 27-Nov-13					
Aroclor-1016	699		µg/kg wet	63.6	795		88	40-140	0.5	30
Aroclor-1016 [2C]	817		µg/kg wet	63.6	795		103	40-140	0.8	30
Aroclor-1260	604		µg/kg wet	63.6	795		76	40-140	4	30
Aroclor-1260 [2C]	677		µg/kg wet	63.6	795		85	40-140	7	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	50.9		µg/kg wet		63.6		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	54.0		µg/kg wet		63.6		85	30-150		
Surrogate: Decachlorobiphenyl (Sr)	47.7		µg/kg wet		63.6		75	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	60.4		µg/kg wet		63.6		95	30-150		
Duplicate (1328684-DUP1)					Source: SB80903-32 Prepared: 25-Nov-13 Analyzed: 27-Nov-13					
Aroclor-1016	< 64.7		µg/kg dry	64.7		BRL				30
Aroclor-1016 [2C]	< 64.7		µg/kg dry	64.7		BRL				30
Aroclor-1221	< 64.7		µg/kg dry	64.7		BRL				30
Aroclor-1221 [2C]	< 64.7		µg/kg dry	64.7		BRL				30
Aroclor-1232	< 64.7		µg/kg dry	64.7		BRL				30
Aroclor-1232 [2C]	< 64.7		µg/kg dry	64.7		BRL				30
Aroclor-1242	< 64.7		µg/kg dry	64.7		BRL				30
Aroclor-1242 [2C]	< 64.7		µg/kg dry	64.7		BRL				30
Aroclor-1248	236		µg/kg dry	64.7		222			6	30
Aroclor-1248 [2C]	201		µg/kg dry	64.7		201			0.3	30
Aroclor-1254	< 64.7		µg/kg dry	64.7		BRL				30
Aroclor-1254 [2C]	< 64.7		µg/kg dry	64.7		BRL				30
Aroclor-1260	< 64.7		µg/kg dry	64.7		BRL				30
Aroclor-1260 [2C]	< 64.7		µg/kg dry	64.7		BRL				30
Aroclor-1262	< 64.7		µg/kg dry	64.7		BRL				30
Aroclor-1262 [2C]	< 64.7		µg/kg dry	64.7		BRL				30
Aroclor-1268	< 64.7		µg/kg dry	64.7		BRL				30
Aroclor-1268 [2C]	< 64.7		µg/kg dry	64.7		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	51.8		µg/kg dry		64.7		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	51.8		µg/kg dry		64.7		80	30-150		
Surrogate: Decachlorobiphenyl (Sr)	51.8		µg/kg dry		64.7		80	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	51.8		µg/kg dry		64.7		80	30-150		
Matrix Spike (1328684-MS1)					Source: SB80903-32 Prepared: 25-Nov-13 Analyzed: 27-Nov-13					
Aroclor-1016	686		µg/kg dry	63.8	797	BRL	86	40-140		
Aroclor-1016 [2C]	698		µg/kg dry	63.8	797	BRL	88	40-140		
Aroclor-1260	571		µg/kg dry	63.8	797	BRL	72	40-140		

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328684 - SW846 3540C										
Matrix Spike (1328684-MS1)										
Source: SB80903-32										
Prepared: 25-Nov-13 Analyzed: 27-Nov-13										
Aroclor-1260 [2C]	555		µg/kg dry	63.8	797	BRL	70	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	47.8		µg/kg dry		63.8		75	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	51.0		µg/kg dry		63.8		80	30-150		
Surrogate: Decachlorobiphenyl (Sr)	51.0		µg/kg dry		63.8		80	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	47.8		µg/kg dry		63.8		75	30-150		
Matrix Spike Dup (1328684-MSD1)										
Source: SB80903-32										
Prepared: 25-Nov-13 Analyzed: 27-Nov-13										
Aroclor-1016	712		µg/kg dry	62.5	781	BRL	91	40-140	6	30
Aroclor-1016 [2C]	725		µg/kg dry	62.5	781	BRL	93	40-140	6	30
Aroclor-1260	606		µg/kg dry	62.5	781	BRL	78	40-140	8	30
Aroclor-1260 [2C]	578		µg/kg dry	62.5	781	BRL	74	40-140	6	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	46.9		µg/kg dry		62.5		75	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	50.0		µg/kg dry		62.5		80	30-150		
Surrogate: Decachlorobiphenyl (Sr)	53.1		µg/kg dry		62.5		85	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	50.0		µg/kg dry		62.5		80	30-150		
Batch 1328688 - SW846 3540C										
Blank (1328688-BLK1)										
Prepared: 26-Nov-13 Analyzed: 27-Nov-13										
Aroclor-1016	< 62.2		µg/kg wet	62.2						
Aroclor-1016 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1221	< 62.2		µg/kg wet	62.2						
Aroclor-1221 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1232	< 62.2		µg/kg wet	62.2						
Aroclor-1232 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1242	< 62.2		µg/kg wet	62.2						
Aroclor-1242 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1248	< 62.2		µg/kg wet	62.2						
Aroclor-1248 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1254	< 62.2		µg/kg wet	62.2						
Aroclor-1254 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1260	< 62.2		µg/kg wet	62.2						
Aroclor-1260 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1262	< 62.2		µg/kg wet	62.2						
Aroclor-1262 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1268	< 62.2		µg/kg wet	62.2						
Aroclor-1268 [2C]	< 62.2		µg/kg wet	62.2						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	52.8		µg/kg wet		62.2		85	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	56.0		µg/kg wet		62.2		90	30-150		
Surrogate: Decachlorobiphenyl (Sr)	52.8		µg/kg wet		62.2		85	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	52.8		µg/kg wet		62.2		85	30-150		
LCS (1328688-BS1)										
Prepared: 26-Nov-13 Analyzed: 27-Nov-13										
Aroclor-1016	783		µg/kg wet	60.0	750		104	40-140		
Aroclor-1016 [2C]	780		µg/kg wet	60.0	750		104	40-140		
Aroclor-1260	681		µg/kg wet	60.0	750		91	40-140		
Aroclor-1260 [2C]	654		µg/kg wet	60.0	750		87	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	54.0		µg/kg wet		60.0		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	57.0		µg/kg wet		60.0		95	30-150		
Surrogate: Decachlorobiphenyl (Sr)	54.0		µg/kg wet		60.0		90	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	51.0		µg/kg wet		60.0		85	30-150		
LCS Dup (1328688-BSD1)										
Prepared: 26-Nov-13 Analyzed: 27-Nov-13										
Aroclor-1016	830		µg/kg wet	65.4	817		102	40-140	3	30
Aroclor-1016 [2C]	846		µg/kg wet	65.4	817		104	40-140	0.4	30

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328688 - SW846 3540C										
<u>LCS Dup (1328688-BSD1)</u>					<u>Prepared: 26-Nov-13 Analyzed: 27-Nov-13</u>					
Aroclor-1260	729		µg/kg wet	65.4	817		89	40-140	2	30
Aroclor-1260 [2C]	771		µg/kg wet	65.4	817		94	40-140	8	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	58.8		µg/kg wet		65.4		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	62.1		µg/kg wet		65.4		95	30-150		
Surrogate: Decachlorobiphenyl (Sr)	58.8		µg/kg wet		65.4		90	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	58.8		µg/kg wet		65.4		90	30-150		
<u>Duplicate (1328688-DUP1)</u>					<u>Source: SB80903-44 Prepared: 26-Nov-13 Analyzed: 27-Nov-13</u>					
Aroclor-1016	< 66.1		µg/kg dry	66.1		BRL				30
Aroclor-1016 [2C]	< 66.1		µg/kg dry	66.1		BRL				30
Aroclor-1221	< 66.1		µg/kg dry	66.1		BRL				30
Aroclor-1221 [2C]	< 66.1		µg/kg dry	66.1		BRL				30
Aroclor-1232	< 66.1		µg/kg dry	66.1		BRL				30
Aroclor-1232 [2C]	< 66.1		µg/kg dry	66.1		BRL				30
Aroclor-1242	< 66.1		µg/kg dry	66.1		BRL				30
Aroclor-1242 [2C]	< 66.1		µg/kg dry	66.1		BRL				30
Aroclor-1248	8060		µg/kg dry	66.1		8420			4	30
Aroclor-1248 [2C]	8890		µg/kg dry	66.1		7880			12	30
Aroclor-1254	7630		µg/kg dry	66.1		9690			24	30
Aroclor-1254 [2C]	9930		µg/kg dry	66.1		10700			8	30
Aroclor-1260	1030		µg/kg dry	66.1		1230			17	30
Aroclor-1260 [2C]	1040		µg/kg dry	66.1		1340			25	30
Aroclor-1262	< 66.1		µg/kg dry	66.1		BRL				30
Aroclor-1262 [2C]	< 66.1		µg/kg dry	66.1		BRL				30
Aroclor-1268	< 66.1		µg/kg dry	66.1		BRL				30
Aroclor-1268 [2C]	< 66.1		µg/kg dry	66.1		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	23.1		µg/kg dry		66.1		35	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	26.4		µg/kg dry		66.1		40	30-150		
Surrogate: Decachlorobiphenyl (Sr)	26.4		µg/kg dry		66.1		40	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	26.4		µg/kg dry		66.1		40	30-150		
<u>Matrix Spike (1328688-MS1)</u>					<u>Source: SB80903-44 Prepared: 26-Nov-13 Analyzed: 27-Nov-13</u>					
Aroclor-1016	3410	QM1	µg/kg dry	67.2	840	BRL	406	40-140		
Aroclor-1016 [2C]	3970	QM1	µg/kg dry	67.2	840	BRL	472	40-140		
Aroclor-1260	1870		µg/kg dry	67.2	840	1230	76	40-140		
Aroclor-1260 [2C]	1890		µg/kg dry	67.2	840	1340	66	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	37.0		µg/kg dry		67.2		55	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	40.3		µg/kg dry		67.2		60	30-150		
Surrogate: Decachlorobiphenyl (Sr)	40.3		µg/kg dry		67.2		60	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	40.3		µg/kg dry		67.2		60	30-150		
<u>Matrix Spike Dup (1328688-MSD1)</u>					<u>Source: SB80903-44 Prepared: 26-Nov-13 Analyzed: 27-Nov-13</u>					
Aroclor-1016	3150	QM1	µg/kg dry	67.8	848	BRL	372	40-140	9	30
Aroclor-1016 [2C]	3580	QM1	µg/kg dry	67.8	848	BRL	422	40-140	11	30
Aroclor-1260	1830		µg/kg dry	67.8	848	1230	71	40-140	7	30
Aroclor-1260 [2C]	1930		µg/kg dry	67.8	848	1340	69	40-140	5	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	40.7		µg/kg dry		67.8		60	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	44.1		µg/kg dry		67.8		65	30-150		
Surrogate: Decachlorobiphenyl (Sr)	44.1		µg/kg dry		67.8		65	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	44.1		µg/kg dry		67.8		65	30-150		

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General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328754 - General Preparation										
<u>Duplicate (1328754-DUP1)</u>				<u>Source: SB80903-12</u>		<u>Prepared & Analyzed: 26-Nov-13</u>				
% Solids	91.6		%			91.7			0.1	20
Batch 1328755 - General Preparation										
<u>Duplicate (1328755-DUP1)</u>				<u>Source: SB80903-32</u>		<u>Prepared & Analyzed: 26-Nov-13</u>				
% Solids	95.9		%			96.1			0.2	20
Batch 1328756 - General Preparation										
<u>Duplicate (1328756-DUP1)</u>				<u>Source: SB80903-52</u>		<u>Prepared & Analyzed: 26-Nov-13</u>				
% Solids	72.6		%			73.7			2	20

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Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
P	Difference between the two GC columns is greater than 40%.
QM1	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
S01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
June O'Connor
Nicole Leja
Rebecca Merz



21 GRIFFIN ROAD NORTH

WINDSOR, CONNECTICUT 06095

TELEPHONE (860) 298-9692

FAX (860) 298-6380

CHAIN OF CUSTODY

Edition: September 2007
Supersede Previous Edition

Office CTDA Rates

LAB ID #.

PROJECT NUMBER

PROJECT NAME

211304.0000.0000

MDC - Reservoir #6 (Basin 2)
West Hartford, CT

PARAMETERS

CONTAINERS

TURNAROUND TIME

X 48-hour RUSH TAT

Rush TAT

Date Needed:

SIGNATURE

INSPECTOR

G. Kaczynski/M. Kostruba

NOTES

Lab ID:

SAMPLE ID:

DATE

TIM E

TYP E

COMP GRAB

SAMPLE LOCATION

EPA 8082 (3540C)

of Amber Glass

of Clear Glass

Matrix
(X1=concrete, X2=cork)

Preservative

3/4-C-0"	11/21/13	1114	X	Floor - adjacent to caulk	X	1	X1	---	80903 - 01
3/4-C-3"	11/21/13	1112	X	Floor - adjacent to caulk	X	1	X1	---	- 02
3/4-C-6"	11/21/13	1110	X	Floor - adjacent to caulk	X	1	X1	---	- 03
3/4-C-9"	11/21/13	1108	X	Floor - adjacent to caulk	X	1	X1	---	- 04
3/4-C-12"	11/21/13	1106	X	Floor - adjacent to caulk	X	1	X1	---	- 05
0-C-0"	11/21/13	1145	X	Wall - adjacent to caulk	X	1	X1	---	231113IR0204
0-C-3"	11/21/13	1143	X	Wall - adjacent to caulk	X	1	X1	---	231113IR0204
0-C-6"	11/21/13	1140	X	Wall - adjacent to caulk	X	1	X1	---	231113IR0204
0-C-9"	11/21/13	1137	X	Wall - adjacent to caulk	X	1	X1	---	231113IR0204
0-C-12"	11/21/13	1135	X	Wall - adjacent to caulk	X	1	X1	---	231113IR0204
18-C-0"	11/21/13	1233	X	Wall - adjacent to caulk	X	1	X1	---	231113IR0204

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Gregory Kaczynski

1640

L. Bishop

L. Bishop

11/21/13

1605

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Remarks: Standard QA/QC Reporting Level

Report to: Erik Plimpton (Eplimpton@TRCSolutions.com) (860) 298-9692

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FAX (860) 298-6380

CHAIN OF CUSTODY

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SB80903e

LAB ID #.

PROJECT NUMBER

PROJECT NAME

211304.0000.0000

MDC - Reservoir #6 (Basin 2)
West Hartford, CT

PARAMETERS

CONTAINERS

TURNAROUND TIME

X 48-hour RUSH TAT

Rush TAT Date Needed:

SIGNATURE

INSPECTOR

G.Kaczynski/M.Kostruba

Lab ID:

SAMPLE ID:

DATE

TIM E

COMP GRAB

SAMPLE LOCATION

EPA 8082 (3540C)

of Amber Glass

of Clear Glass

Matrix
(X1=concrete, X2=cork)

Preservative

NOTES

18-C-3"	11/21/13	1230	X	Wall - adjacent to caulk	X	1	X1	----	80903-12
18-C-6"	11/21/13	1228	X	Wall - adjacent to caulk	X	1	X1	----	-13
18-C-9"	11/21/13	1226	X	Wall - adjacent to caulk	X	1	X1	----	-14
18-C-12"	11/21/13	1222	X	Wall - adjacent to caulk	X	1	X1	----	-15
16/17-C-0"	11/21/13	1347	X	Floor - adjacent to caulk	X	1	X1	----	-16
16/17-C-3"	11/21/13	1345	X	Floor - adjacent to caulk	X	1	X1	----	-17
16/17-C-6"	11/21/13	1343	X	Floor - adjacent to caulk	X	1	X1	----	-18
16/17-C-9"	11/21/13	1340	X	Floor - adjacent to caulk	X	1	X1	----	-19
16/17-C-12"	11/21/13	1338	X	Floor - adjacent to caulk	X	1	X1	----	-20
16-C-0"	11/21/13	1418	X	Column - adjacent to cork	X	1	X1	----	-21
16-C-3"	11/21/13	1415	X	Column - adjacent to cork	X	1	X1	----	-22

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Gregory Kaczynski

1640

L.BISHOP

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11/25/13

OK

Remarks: Standard QA/QC Reporting Level

Report to: Erik Plimpton (Eplimpton@TRCsolutions.com) (860) 298-9692

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P0# C211304

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FAX (860) 298-6380

CHAIN OF CUSTODY

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CTDAS Rates

LAB ID #.

PROJECT NUMBER

PROJECT NAME

211304.0000.0000

MDC - Reservoir #6 (Basin 2)
West Hartford, CT

PARAMETERS

CONTAINERS

TURNAROUND TIME

X 48-hour RUSH TAT

Rush TAT

Date Needed:

SIGNATURE

INSPECTOR

G. Kaczynski/M. Kostruba

NOTES

Lab ID:	SAMPLE ID:	DATE	TIME	TYP		SAMPLE LOCATION	EPA 8082 (3540C)	# of Amber Glass		# of Clear Glass		Matrix (X1=concrete, X2=cork)	Preservative	
				COMP	GRAB									
	16-C-6"	11/21/13	1413	X		Column - adjacent to cork	X	1		X1				80803 -23
	16-C-9"	11/21/13	1410	X		Column - adjacent to cork	X	1		X1				-24
	16-C-12"	11/21/13	1407	X		Column - adjacent to cork	X	1		X1				-25
	5-C-0"	11/22/13	0845	X		Column - adjacent to cork	X	1		X1				-26
	5-C-3"	11/22/13	0842	X		Column - adjacent to cork	X	1		X1				-27
	5-C-6"	11/22/13	0839	X		Column - adjacent to cork	X	1		X1				-28
	5-C-9"	11/22/13	0836	X		Column - adjacent to cork	X	1		X1				231113R023
	5-C-12"	11/22/13	0834	X		Column - adjacent to cork	X	1		X1				231113R023
	5-C-3"D	11/22/13	0900	X		Column - adjacent to cork (2-2.5" deep)	X	1		X1				231113R023
	5-C-6"D	11/22/13	0910	X		Column - adjacent to cork (2-2.5" deep)	X	1		X1				231113R023

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Gregory Kaczynski

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L. Bishop

L. Bishop

1635

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Remarks: Standard QA/QC Reporting Level

Report to: Erik Plimpton (Eplimpton@TRCSolutions.com) (860) 298-9692

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P0# C211304

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WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

CHAIN OF CUSTODY

Edition: September 2007
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SB 80903 e

LAB ID #.

PROJECT NUMBER

PROJECT NAME

211304.0000.0000

MDC - Reservoir #6 (Basin 2)
West Hartford, CT

PARAMETERS

CONTAINERS

TURNAROUND TIME

X 48-hour RUSH TAT

Rush TAT Date Needed:

SIGNATURE

INSPECTOR

G. Kaczynski/M. Kostruba

Lab ID:

DATE

TIM E

COMP

GRAB

SAMPLE LOCATION

EPA 8082 (3540C)

of Amber Glass

of Clear Glass

Matrix
(X1=concrete, X2=cork)

Preservative

NOTES

3/4-1-0"	11/22/13	0940	X	Floor - adjacent to tar	X	1	X1	----	80903 -33
3/4-1-3"	11/22/13	0937	X	Floor - adjacent to tar	X	1	X1	----	-34
3/4-1-6"	11/22/13	0934	X	Floor - adjacent to tar	X	1	X1	----	-35
9-1-0"	11/22/13	1010	X	Wall - adjacent to tar	X	1	X1	----	-36
9-1-3"	11/22/13	1007	X	Wall - adjacent to tar	X	1	X1	----	-37
9-1-6"	11/22/13	1003	X	Wall - adjacent to tar	X	1	X1	----	-38
9-1-3"D	11/22/13	1029	X	Wall - adjacent to tar (2-2.5" deep)	X	1	X1	----	93H113IR02-35
9-1-6"D	11/22/13	1025	X	Wall - adjacent to tar (2-2.5" deep)	X	1	X1	----	OK 11/25/13 -40
7/8-W/A-0"	11/22/13	1115	X	Floor - adjacent to tar	X	1	X1	----	-41
7/8-W/A-3"	11/22/13	1111	X	Floor - adjacent to tar	X	1	X1	----	-42

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Gregory Kaczynski

1640

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11/25/13

OK

Remarks: Standard QA/QC Reporting Level

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WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

CHAIN OF CUSTODY

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SB 80905

LAB ID #.

PROJECT NUMBER

PROJECT NAME

211304.0000.0000

MDC - Reservoir #6 (Basin 2)
West Hartford, CT

PARAMETERS

CONTAINERS

X

48-hour RUSH TAT

Rush TAT

Date Needed:

TURNAROUND TIME

SIGNATURE

INSPECTOR

G. Kaczynski/M. Kostruba

NOTES

Lab ID:	SAMPLE ID:	DATE	TIME	TYP		SAMPLE LOCATION	EPA 8082 (3540C)	# of Amber Glass		# of Clear Glass		Matrix (X1=concrete, X2=cork)	Preservative	
				COMP	GRAB									
	7/8-W/A-6"	11/22/13	1104	X		Floor - adjacent to tar	X	1		X1				80905 -43
	3/4-C-3"D	11/22/13	1140	X		Floor - adjacent to caulk (2-2.5" deep)	X	1		X1				-44
	3/4-C-6"D	11/22/13	1137	X		Floor - adjacent to caulk (2-2.5" deep)	X	1		X1				-45
	0-C-3"D	11/22/13	1326	X		Wall - adjacent to caulk (2-2.5" deep)	X	1		X1				-46
	0-C-6"D	11/22/13	1330	X		Wall - adjacent to caulk (2-2.5" deep)	X	1		X1				231113 IR 0247
	0/1-C-0"	11/22/13	1417	X		Ceiling - adjacent to cork	X	1		X1				-48
	0/1-C-3"	11/22/13	1413	X		Ceiling - adjacent to cork	X	1		X1				-49
	0/1-C-6"	11/22/13	1410	X		Ceiling - adjacent to cork	X	1		X1				-50
	0/1-C-9"	11/22/13	1407	X		Ceiling - adjacent to cork	X	1		X1				-51

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Gregory Kaczynski

1640

L-Bishop

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11/22/13

1635

Remarks: Standard QA/QC Reporting Level

Report to: Erik Plimpton (Eplimpton@TRCSolutions.com) (860) 298-9692

Include CT DPH RCP Report

P0# C211304

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Page 5 of 8

11/25/13

REF



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FAX (860) 298-6380

CHAIN OF CUSTODY

Edition: September 2007
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LAB ID #:

80903

PROJECT NUMBER

211304.0000.0000

PROJECT NAME

MDC - Reservoir #6 (Basin 2)
West Hartford, CT

PARAMETERS

CONTAINERS

X

48-hour RUSH TAT

TURNAROUND TIME

Rush TAT

Date Needed:

SIGNATURE

[Signature]

INSPECTOR

G. Kaczynski/M. Kostruba

Lab ID:

SAMPLE ID:

DATE

TYP
E

SAMPLE LOCATION

EPA 8082 (3540C)

of Amber Glass

of Clear Glass

Matrix
(X1=concrete, X2=cork)

Preservative

NOTES

0/1-C-12"

11/22/13

1404

X

Ceiling - adjacent to cork

X

1

X1

80903

52

18-C-CK

11/22/13

1100

X

Cork from wall (9" deep)

X

1

X2

What remains - depth to which ESI removed cork on wall

53

0/1-C-CK

11/22/13

1420

X

Cork from ceiling

X

1

X2

54

234123R02
OK 11/25/13

Relinquished by: (Signature)

[Signature]

Date:

11/24/13

Received by: (Signature)

[Signature]

Relinquished by: (Signature)

[Signature]

(Printed)

Time:

Gregory Kaczynski

1640

(Printed)

L. Bishop

(Printed)

L. Bishop

Remarks: Standard QA/QC Reporting Level

Report to: Erik Plimpton (Eplimpton@TRCsolutions.com) (860) 298-9692

Include CT DPH RCP Report

P0# C211304

Condition upon Receipt:

11/25/13

OK

Report Date:
02-Dec-13 15:19



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

TRC
21 Griffin Road North
Windsor, CT 06095
Attn: Erik Plimpton

Project: MDC - Reservoir #6 (Basin 2)-West Hartford, CT
Project #: 211304.0000.0000

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB80904-01	01	Caulk	21-Nov-13 10:10	25-Nov-13 16:35
SB80904-02	02	Caulk	21-Nov-13 10:45	25-Nov-13 16:35
SB80904-03	03	Caulk	21-Nov-13 09:50	25-Nov-13 16:35
SB80904-04	04	Cork	21-Nov-13 10:12	25-Nov-13 16:35
SB80904-05	05	Cork	21-Nov-13 10:20	25-Nov-13 16:35
SB80904-06	06	Cork	21-Nov-13 09:45	25-Nov-13 16:35
SB80904-07	07	Tar	21-Nov-13 13:15	25-Nov-13 16:35
SB80904-08	08	Tar	21-Nov-13 13:20	25-Nov-13 16:35
SB80904-09	09	Tar	21-Nov-13 13:25	25-Nov-13 16:35
SB80904-10	10	Cork	21-Nov-13 12:10	25-Nov-13 16:35
SB80904-11	11	Cork	21-Nov-13 12:12	25-Nov-13 16:35
SB80904-12	12	Cork	21-Nov-13 12:15	25-Nov-13 16:35
SB80904-13	13	Cork	21-Nov-13 12:20	25-Nov-13 16:35
SB80904-14	14	Cork	22-Nov-13 08:40	25-Nov-13 16:35
SB80904-15	15	Cork	22-Nov-13 08:42	25-Nov-13 16:35
SB80904-16	16	Cork	22-Nov-13 08:45	25-Nov-13 16:35
SB80904-17	17	Cork	22-Nov-13 08:55	25-Nov-13 16:35
SB80904-18	18	Cork	22-Nov-13 08:58	25-Nov-13 16:35
SB80904-19	19	Cork	22-Nov-13 09:02	25-Nov-13 16:35

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435



Authorized by:

A handwritten signature in black ink that reads "Nicole Leja".

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 30 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, NJ-MA012, PA-68-04426 and FL-E87936).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

**Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form**

Laboratory Name: Spectrum Analytical, Inc.

Client: TRC - Windsor, CT

Project Location: MDC - Reservoir #6 (Basin 2)-West

Project Number: 211304.0000.0000

Sampling Date(s):
Hartford, CT

Laboratory Sample ID(s):

11/21/2013 through 11/22/2013

SB80904-01 through SB80904-19

RCP Methods Used:

SW846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes	No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes	No
1B	<i>VPH and EPH methods only:</i> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	Yes	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	✓ Yes	No
3	Were samples received at an appropriate temperature?	✓ Yes	No
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	Yes	✓ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	Yes Yes	✓ No No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	✓ Yes	No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	✓ Yes	No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.



Nicole Leja
Laboratory Director
Date: 12/2/2013

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The samples were received 1.3 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctafluorobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Duplicates:

1328689-DUP1 *Source: SB80904-11*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

4,4-DB-Octafluorobiphenyl (Sr)

Samples:

SB80904-01 *01*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)

4,4-DB-Octafluorobiphenyl (Sr) [2C]

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

SB80904-02 *02*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SW846 8082A

Samples:

SB80904-02 02

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)
4,4-DB-Octafluorobiphenyl (Sr) [2C]
Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

SB80904-03 03

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)
4,4-DB-Octafluorobiphenyl (Sr) [2C]
Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

SB80904-04 04

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)
4,4-DB-Octafluorobiphenyl (Sr) [2C]
Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

SB80904-05 05

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)
4,4-DB-Octafluorobiphenyl (Sr) [2C]
Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

SB80904-06 06

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)
4,4-DB-Octafluorobiphenyl (Sr) [2C]
Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

SB80904-08 08

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SW846 8082A

Samples:

SB80904-12 12

Difference between the two GC columns is greater than 40%.

Aroclor-1254

SB80904-14 14

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB80904-17 17

Elevated Reporting Limits due to limited sample volume.

SB80904-18 18

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)

4,4-DB-Octafluorobiphenyl (Sr) [2C]

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

SB80904-19 19

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sample Acceptance Check Form

Client: TRC - Windsor, CT
 Project: MDC - Reservoir #6 (Basin 2)-West Hartford, CT / 211304.0000.0000
 Work Order: SB80904
 Sample(s) received on: 11/25/2013
 Received by: Vickie Knowles

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
1. Were custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Were custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Were samples cooled on ice upon transfer to laboratory representative?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Were samples refrigerated upon transfer to laboratory representative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sample Identification

01

SB80904-01

Client Project #
211304.0000.0000

Matrix
Caulk

Collection Date/Time
21-Nov-13 10:10

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GC

Polychlorinated Biphenyls

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 2190000	D	µg/kg dry	2190000	1630000	10000	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	X
11104-28-2	Aroclor-1221	< 2190000	D	µg/kg dry	2190000	1970000	10000	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 2190000	D	µg/kg dry	2190000	1400000	10000	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 2190000	D	µg/kg dry	2190000	1310000	10000	"	"	"	"	"	X
12672-29-6	Aroclor-1248	26,400,000	D	µg/kg dry	2190000	1140000	10000	"	"	"	"	"	X
11097-69-1	Aroclor-1254	114,000,000	D	µg/kg dry	2190000	1820000	10000	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	98,900,000	D	µg/kg dry	2190000	1090000	10000	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 2190000	D	µg/kg dry	2190000	2040000	10000	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 2190000	D	µg/kg dry	2190000	901000	10000	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	81.3	%					1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	
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This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

02

SB80904-02

Client Project #
211304.0000.0000

Matrix
Caulk

Collection Date/Time
21-Nov-13 10:45

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GC

Polychlorinated Biphenyls

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 2900000	D	µg/kg dry	2900000	2170000	10000	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	X
11104-28-2	Aroclor-1221	< 2900000	D	µg/kg dry	2900000	2610000	10000	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 2900000	D	µg/kg dry	2900000	1860000	10000	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 2900000	D	µg/kg dry	2900000	1750000	10000	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 2900000	D	µg/kg dry	2900000	1510000	10000	"	"	"	"	"	X
11097-69-1	Aroclor-1254	110,000,000	D	µg/kg dry	2900000	2420000	10000	"	"	"	"	"	X
11096-82-5	Aroclor-1260	11,600,000	D	µg/kg dry	2900000	1800000	10000	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 2900000	D	µg/kg dry	2900000	2700000	10000	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 2900000	D	µg/kg dry	2900000	1200000	10000	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	59.5	%					1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	
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This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

03

SB80904-03

Client Project #
211304.0000.0000

Matrix
Caulk

Collection Date/Time
21-Nov-13 09:50

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GC

Polychlorinated Biphenyls

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 2370000	D	µg/kg dry	2370000	1770000	10000	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	X
11104-28-2	Aroclor-1221	< 2370000	D	µg/kg dry	2370000	2130000	10000	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 2370000	D	µg/kg dry	2370000	1520000	10000	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 2370000	D	µg/kg dry	2370000	1430000	10000	"	"	"	"	"	X
12672-29-6	Aroclor-1248	218,000,000	D	µg/kg dry	2370000	1230000	10000	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	192,000,000	D	µg/kg dry	2370000	1390000	10000	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	11,700,000	D	µg/kg dry	2370000	1190000	10000	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 2370000	D	µg/kg dry	2370000	2210000	10000	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 2370000	D	µg/kg dry	2370000	977000	10000	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	77.9	%					1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	
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This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

04

SB80904-04

Client Project #
211304.0000.0000

Matrix
Cork

Collection Date/Time
21-Nov-13 10:12

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GC

Polychlorinated Biphenyls

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 27100	D	µg/kg dry	27100	20200	100	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	X
11104-28-2	Aroclor-1221	< 27100	D	µg/kg dry	27100	24400	100	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 27100	D	µg/kg dry	27100	17400	100	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 27100	D	µg/kg dry	27100	16300	100	"	"	"	"	"	X
12672-29-6	Aroclor-1248	417,000	D	µg/kg dry	27100	14100	100	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	1,080,000	D	µg/kg dry	27100	15900	100	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	462,000	D	µg/kg dry	27100	13600	100	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 27100	D	µg/kg dry	27100	25200	100	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 27100	D	µg/kg dry	27100	11200	100	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	22.5	%					1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	
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Sample Identification

05

SB80904-05

Client Project #
211304.0000.0000

Matrix
Cork

Collection Date/Time
21-Nov-13 10:20

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GC

Polychlorinated Biphenyls

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 357000	D	µg/kg dry	357000	266000	1000	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	X
11104-28-2	Aroclor-1221	< 357000	D	µg/kg dry	357000	321000	1000	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 357000	D	µg/kg dry	357000	229000	1000	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 357000	D	µg/kg dry	357000	215000	1000	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 357000	D	µg/kg dry	357000	186000	1000	"	"	"	"	"	X
11097-69-1	Aroclor-1254	12,500,000	D	µg/kg dry	357000	297000	1000	"	"	"	"	"	X
11096-82-5	Aroclor-1260	1,160,000	D	µg/kg dry	357000	221000	1000	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 357000	D	µg/kg dry	357000	332000	1000	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 357000	D	µg/kg dry	357000	147000	1000	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	26.7	%					1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	
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Sample Identification

06

SB80904-06

Client Project #
211304.0000.0000

Matrix
Cork

Collection Date/Time
21-Nov-13 09:45

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GC

Polychlorinated Biphenyls

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 1760000	D	µg/kg dry	1760000	1320000	10000	SW846 8082A	26-Nov-13	01-Dec-13	BLM	1328688	X
11104-28-2	Aroclor-1221	< 1760000	D	µg/kg dry	1760000	1590000	10000	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 1760000	D	µg/kg dry	1760000	1130000	10000	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 1760000	D	µg/kg dry	1760000	1060000	10000	"	"	"	"	"	X
12672-29-6	Aroclor-1248	58,300,000	D	µg/kg dry	1760000	916000	10000	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	44,500,000	D	µg/kg dry	1760000	1030000	10000	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	2,730,000	D	µg/kg dry	1760000	881000	10000	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 1760000	D	µg/kg dry	1760000	1640000	10000	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 1760000	D	µg/kg dry	1760000	726000	10000	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	35.9	%					1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	
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Sample Identification

07

SB80904-07

Client Project #
211304.0000.0000

Matrix
Tar

Collection Date/Time
21-Nov-13 13:15

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 158		µg/kg dry	158	118	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	X
11104-28-2	Aroclor-1221	< 158		µg/kg dry	158	142	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 158		µg/kg dry	158	101	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 158		µg/kg dry	158	94.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	12,500		µg/kg dry	158	69.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 158		µg/kg dry	158	131	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	1,700		µg/kg dry	158	97.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 158		µg/kg dry	158	147	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 158		µg/kg dry	158	65.1	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	65			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	70			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	120			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	115			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	58.9			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	
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Sample Identification

08

SB80904-08

Client Project #
211304.0000.0000

Matrix
Tar

Collection Date/Time
21-Nov-13 13:20

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GC

Polychlorinated Biphenyls

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 8680	D	µg/kg dry	8680	6490	10	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	X
11104-28-2	Aroclor-1221	< 8680	D	µg/kg dry	8680	7830	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 8680	D	µg/kg dry	8680	5580	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 8680	D	µg/kg dry	8680	5220	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	159,000	D	µg/kg dry	8680	3810	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	173,000	D	µg/kg dry	8680	7240	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	19,100	D	µg/kg dry	8680	5380	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 8680	D	µg/kg dry	8680	8090	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 8680	D	µg/kg dry	8680	3580	10	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	50			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	50			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	39.7	%					1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	
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Sample Identification

09

SB80904-09

Client Project #
211304.0000.0000

Matrix
Tar

Collection Date/Time
21-Nov-13 13:25

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 1100		µg/kg dry	1100	823	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	X
11104-28-2	Aroclor-1221	< 1100		µg/kg dry	1100	992	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 1100		µg/kg dry	1100	707	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 1100		µg/kg dry	1100	662	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	5,120		µg/kg dry	1100	573	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 1100		µg/kg dry	1100	918	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 1100		µg/kg dry	1100	683	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 1100		µg/kg dry	1100	1030	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 1100		µg/kg dry	1100	454	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	70			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	75			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	30.9			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	
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Sample Identification

10

SB80904-10

Client Project #
211304.0000.0000

Matrix
Cork

Collection Date/Time
21-Nov-13 12:10

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 305		µg/kg dry	305	228	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	X
11104-28-2	Aroclor-1221	< 305		µg/kg dry	305	275	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 305		µg/kg dry	305	196	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 305		µg/kg dry	305	183	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	6,100		µg/kg dry	305	134	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	7,030		µg/kg dry	305	254	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	1,740		µg/kg dry	305	153	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 305		µg/kg dry	305	284	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 305		µg/kg dry	305	126	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	125			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	135			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	21.5			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	
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Sample Identification

11

SB80904-11

Client Project #
211304.0000.0000

Matrix
Cork

Collection Date/Time
21-Nov-13 12:12

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 307		µg/kg dry	307	229	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	X
11104-28-2	Aroclor-1221	< 307		µg/kg dry	307	276	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 307		µg/kg dry	307	197	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 307		µg/kg dry	307	185	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 307		µg/kg dry	307	160	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 307		µg/kg dry	307	256	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	399		µg/kg dry	307	190	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 307		µg/kg dry	307	286	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 307		µg/kg dry	307	127	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	55			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	20.8			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	
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Sample Identification

12

SB80904-12

Client Project #
211304.0000.0000Matrix
CorkCollection Date/Time
21-Nov-13 12:15Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 318		µg/kg dry	318	237	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	X
11104-28-2	Aroclor-1221	< 318		µg/kg dry	318	286	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 318		µg/kg dry	318	204	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 318		µg/kg dry	318	191	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 318		µg/kg dry	318	165	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	778	P	µg/kg dry	318	265	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 318		µg/kg dry	318	197	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 318		µg/kg dry	318	296	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 318		µg/kg dry	318	131	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	60			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	65			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	20.5			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	
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Sample Identification

13

SB80904-13

Client Project #
211304.0000.0000

Matrix
Cork

Collection Date/Time
21-Nov-13 12:20

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 335		µg/kg dry	335	250	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	X
11104-28-2	Aroclor-1221	< 335		µg/kg dry	335	301	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 335		µg/kg dry	335	215	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 335		µg/kg dry	335	201	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	1,760		µg/kg dry	335	174	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 335		µg/kg dry	335	279	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 335		µg/kg dry	335	207	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 335		µg/kg dry	335	312	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 335		µg/kg dry	335	138	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	19.7			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	
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Sample Identification

14

SB80904-14

Client Project #
211304.0000.0000

Matrix
Cork

Collection Date/Time
22-Nov-13 08:40

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GC

Polychlorinated Biphenyls

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 3340	D	µg/kg dry	3340	2490	10	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	X
11104-28-2	Aroclor-1221	< 3340	D	µg/kg dry	3340	3010	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 3340	D	µg/kg dry	3340	2140	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 3340	D	µg/kg dry	3340	2010	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	209,000	D	µg/kg dry	3340	1460	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	208,000	D	µg/kg dry	3340	1950	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	13,300	D	µg/kg dry	3340	2070	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 3340	D	µg/kg dry	3340	3110	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 3340	D	µg/kg dry	3340	1380	10	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	19.4	%					1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	
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Sample Identification

15

SB80904-15

Client Project #
211304.0000.0000

Matrix
Cork

Collection Date/Time
22-Nov-13 08:42

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 236		µg/kg dry	236	176	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	X
11104-28-2	Aroclor-1221	< 236		µg/kg dry	236	212	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 236		µg/kg dry	236	151	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 236		µg/kg dry	236	142	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	6,720		µg/kg dry	236	103	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	13,400		µg/kg dry	236	196	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	5,050		µg/kg dry	236	146	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 236		µg/kg dry	236	219	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 236		µg/kg dry	236	97.2	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	26.3			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	
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Sample Identification

16

SB80904-16

Client Project #
211304.0000.0000

Matrix
Cork

Collection Date/Time
22-Nov-13 08:45

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 222		µg/kg dry	222	166	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	X
11104-28-2	Aroclor-1221	< 222		µg/kg dry	222	200	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 222		µg/kg dry	222	142	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 222		µg/kg dry	222	133	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	4,510		µg/kg dry	222	97.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	3,710		µg/kg dry	222	185	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	1,860		µg/kg dry	222	111	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 222		µg/kg dry	222	207	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 222		µg/kg dry	222	91.5	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	25.7			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	
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Sample Identification

17

SB80904-17

Client Project #
211304.0000.0000

Matrix
Cork

Collection Date/Time
22-Nov-13 08:55

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GC

Polychlorinated Biphenyls

R02

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 806		µg/kg dry	806	602	1	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	X
11104-28-2	Aroclor-1221	< 806		µg/kg dry	806	726	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 806		µg/kg dry	806	517	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 806		µg/kg dry	806	485	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	72,200		µg/kg dry	806	354	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 806		µg/kg dry	806	671	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	2,180		µg/kg dry	806	499	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 806		µg/kg dry	806	750	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 806		µg/kg dry	806	332	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	105			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	21.8			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328756	
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Sample Identification

18

SB80904-18

Client Project #
211304.0000.0000

Matrix
Cork

Collection Date/Time
22-Nov-13 08:58

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GC

Polychlorinated Biphenyls

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 33400	D	µg/kg dry	33400	25000	100	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	X
11104-28-2	Aroclor-1221	< 33400	D	µg/kg dry	33400	30100	100	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 33400	D	µg/kg dry	33400	21500	100	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 33400	D	µg/kg dry	33400	20100	100	"	"	"	"	"	X
12672-29-6	Aroclor-1248	346,000	D	µg/kg dry	33400	17400	100	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	787,000	D	µg/kg dry	33400	19600	100	"	"	"	"	"	X
11096-82-5	Aroclor-1260	627,000	D	µg/kg dry	33400	20700	100	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 33400	D	µg/kg dry	33400	31100	100	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 33400	D	µg/kg dry	33400	13800	100	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	29.8	%					1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328757	
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Sample Identification

19

SB80904-19

Client Project #
211304.0000.0000

Matrix
Cork

Collection Date/Time
22-Nov-13 09:02

Received
25-Nov-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GC

Polychlorinated Biphenyls

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 6900	D	µg/kg dry	6900	5160	10	SW846 8082A	25-Nov-13	27-Nov-13	IMR	1328689	X
11104-28-2	Aroclor-1221	< 6900	D	µg/kg dry	6900	6220	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 6900	D	µg/kg dry	6900	4430	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 6900	D	µg/kg dry	6900	4150	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	317,000	D	µg/kg dry	6900	3030	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	294,000	D	µg/kg dry	6900	4040	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	145,000	D	µg/kg dry	6900	3450	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 6900	D	µg/kg dry	6900	6430	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 6900	D	µg/kg dry	6900	2850	10	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	26.4			%			1	SM2540 G Mod.	26-Nov-13	26-Nov-13	DT	1328757	
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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328688 - SW846 3540C										
Blank (1328688-BLK1)	Prepared: 26-Nov-13 Analyzed: 27-Nov-13									
Aroclor-1016	< 62.2		µg/kg wet	62.2						
Aroclor-1016 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1221	< 62.2		µg/kg wet	62.2						
Aroclor-1221 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1232	< 62.2		µg/kg wet	62.2						
Aroclor-1232 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1242	< 62.2		µg/kg wet	62.2						
Aroclor-1242 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1248	< 62.2		µg/kg wet	62.2						
Aroclor-1248 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1254	< 62.2		µg/kg wet	62.2						
Aroclor-1254 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1260	< 62.2		µg/kg wet	62.2						
Aroclor-1260 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1262	< 62.2		µg/kg wet	62.2						
Aroclor-1262 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1268	< 62.2		µg/kg wet	62.2						
Aroclor-1268 [2C]	< 62.2		µg/kg wet	62.2						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	52.8		µg/kg wet		62.2		85	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	56.0		µg/kg wet		62.2		90	30-150		
Surrogate: Decachlorobiphenyl (Sr)	52.8		µg/kg wet		62.2		85	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	52.8		µg/kg wet		62.2		85	30-150		
LCS (1328688-BS1)	Prepared: 26-Nov-13 Analyzed: 27-Nov-13									
Aroclor-1016	783		µg/kg wet	60.0	750		104	40-140		
Aroclor-1016 [2C]	780		µg/kg wet	60.0	750		104	40-140		
Aroclor-1260	681		µg/kg wet	60.0	750		91	40-140		
Aroclor-1260 [2C]	654		µg/kg wet	60.0	750		87	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	54.0		µg/kg wet		60.0		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	57.0		µg/kg wet		60.0		95	30-150		
Surrogate: Decachlorobiphenyl (Sr)	54.0		µg/kg wet		60.0		90	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	51.0		µg/kg wet		60.0		85	30-150		
LCS Dup (1328688-BSD1)	Prepared: 26-Nov-13 Analyzed: 27-Nov-13									
Aroclor-1016	830		µg/kg wet	65.4	817		102	40-140	3	30
Aroclor-1016 [2C]	846		µg/kg wet	65.4	817		104	40-140	0.4	30
Aroclor-1260	729		µg/kg wet	65.4	817		89	40-140	2	30
Aroclor-1260 [2C]	771		µg/kg wet	65.4	817		94	40-140	8	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	58.8		µg/kg wet		65.4		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	62.1		µg/kg wet		65.4		95	30-150		
Surrogate: Decachlorobiphenyl (Sr)	58.8		µg/kg wet		65.4		90	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	58.8		µg/kg wet		65.4		90	30-150		
Batch 1328689 - SW846 3540C										
Blank (1328689-BLK1)	Prepared: 25-Nov-13 Analyzed: 26-Nov-13									
Aroclor-1016	< 62.2		µg/kg wet	62.2						
Aroclor-1016 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1221	< 62.2		µg/kg wet	62.2						
Aroclor-1221 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1232	< 62.2		µg/kg wet	62.2						
Aroclor-1232 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1242	< 62.2		µg/kg wet	62.2						
Aroclor-1242 [2C]	< 62.2		µg/kg wet	62.2						

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328689 - SW846 3540C										
Blank (1328689-BLK1)					Prepared: 25-Nov-13 Analyzed: 26-Nov-13					
Aroclor-1248	< 62.2		µg/kg wet	62.2						
Aroclor-1248 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1254	< 62.2		µg/kg wet	62.2						
Aroclor-1254 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1260	< 62.2		µg/kg wet	62.2						
Aroclor-1260 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1262	< 62.2		µg/kg wet	62.2						
Aroclor-1262 [2C]	< 62.2		µg/kg wet	62.2						
Aroclor-1268	< 62.2		µg/kg wet	62.2						
Aroclor-1268 [2C]	< 62.2		µg/kg wet	62.2						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	56.0		µg/kg wet		62.2		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	65.3		µg/kg wet		62.2		105	30-150		
Surrogate: Decachlorobiphenyl (Sr)	71.5		µg/kg wet		62.2		115	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	80.8		µg/kg wet		62.2		130	30-150		
LCS (1328689-BS1)					Prepared: 25-Nov-13 Analyzed: 26-Nov-13					
Aroclor-1016	936		µg/kg wet	66.2	827		113	40-140		
Aroclor-1016 [2C]	986		µg/kg wet	66.2	827		119	40-140		
Aroclor-1260	906		µg/kg wet	66.2	827		110	40-140		
Aroclor-1260 [2C]	989		µg/kg wet	66.2	827		120	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	66.2		µg/kg wet		66.2		100	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	72.8		µg/kg wet		66.2		110	30-150		
Surrogate: Decachlorobiphenyl (Sr)	82.7		µg/kg wet		66.2		125	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	92.6		µg/kg wet		66.2		140	30-150		
LCS Dup (1328689-BSD1)					Prepared: 25-Nov-13 Analyzed: 26-Nov-13					
Aroclor-1016	816		µg/kg wet	64.0	800		102	40-140	10	30
Aroclor-1016 [2C]	870		µg/kg wet	64.0	800		109	40-140	9	30
Aroclor-1260	832		µg/kg wet	64.0	800		104	40-140	5	30
Aroclor-1260 [2C]	854		µg/kg wet	64.0	800		107	40-140	11	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	60.8		µg/kg wet		64.0		95	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	64.0		µg/kg wet		64.0		100	30-150		
Surrogate: Decachlorobiphenyl (Sr)	70.4		µg/kg wet		64.0		110	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	80.0		µg/kg wet		64.0		125	30-150		
Duplicate (1328689-DUP1)					Source: SB80904-11 Prepared: 25-Nov-13 Analyzed: 27-Nov-13					
Aroclor-1016	< 311		µg/kg dry	311		BRL				30
Aroclor-1016 [2C]	< 311		µg/kg dry	311		BRL				30
Aroclor-1221	< 311		µg/kg dry	311		BRL				30
Aroclor-1221 [2C]	< 311		µg/kg dry	311		BRL				30
Aroclor-1232	< 311		µg/kg dry	311		BRL				30
Aroclor-1232 [2C]	< 311		µg/kg dry	311		BRL				30
Aroclor-1242	< 311		µg/kg dry	311		BRL				30
Aroclor-1242 [2C]	< 311		µg/kg dry	311		BRL				30
Aroclor-1248	< 311		µg/kg dry	311		BRL				30
Aroclor-1248 [2C]	< 311		µg/kg dry	311		BRL				30
Aroclor-1254	< 311		µg/kg dry	311		BRL				30
Aroclor-1254 [2C]	< 311		µg/kg dry	311		BRL				30
Aroclor-1260	326		µg/kg dry	311		399			20	30
Aroclor-1260 [2C]	326		µg/kg dry	311		322			1	30
Aroclor-1262	< 311		µg/kg dry	311		BRL				30
Aroclor-1262 [2C]	< 311		µg/kg dry	311		BRL				30
Aroclor-1268	< 311		µg/kg dry	311		BRL				30

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328689 - SW846 3540C										
Duplicate (1328689-DUP1)				Source: SB80904-11				Prepared: 25-Nov-13 Analyzed: 27-Nov-13		
Aroclor-1268 [2C]	< 311		µg/kg dry	311		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	77.7	SGC	µg/kg dry		311		25	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	93.3		µg/kg dry		311		30	30-150		
Surrogate: Decachlorobiphenyl (Sr)	233		µg/kg dry		311		75	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	233		µg/kg dry		311		75	30-150		
Matrix Spike (1328689-MS1)				Source: SB80904-11				Prepared: 25-Nov-13 Analyzed: 27-Nov-13		
Aroclor-1016	4730		µg/kg dry	823	10300	BRL	46	40-140		
Aroclor-1016 [2C]	4650		µg/kg dry	823	10300	BRL	45	40-140		
Aroclor-1260	7860		µg/kg dry	823	10300	399	73	40-140		
Aroclor-1260 [2C]	7610		µg/kg dry	823	10300	322	71	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	823		µg/kg dry		823		100	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	864		µg/kg dry		823		105	30-150		
Surrogate: Decachlorobiphenyl (Sr)	1190		µg/kg dry		823		145	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	1150		µg/kg dry		823		140	30-150		
Matrix Spike Dup (1328689-MSD1)				Source: SB80904-11				Prepared: 25-Nov-13 Analyzed: 27-Nov-13		
Aroclor-1016	5100		µg/kg dry	911	11400	BRL	45	40-140	3	30
Aroclor-1016 [2C]	5150		µg/kg dry	911	11400	BRL	45	40-140	0	30
Aroclor-1260	8060		µg/kg dry	911	11400	399	67	40-140	7	30
Aroclor-1260 [2C]	8750		µg/kg dry	911	11400	322	74	40-140	4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	866		µg/kg dry		911		95	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	911		µg/kg dry		911		100	30-150		
Surrogate: Decachlorobiphenyl (Sr)	1180		µg/kg dry		911		130	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	1320		µg/kg dry		911		145	30-150		

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Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
P	Difference between the two GC columns is greater than 40%.
R02	Elevated Reporting Limits due to limited sample volume.
S01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
SGC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk
Rebecca Merz



Page 1 of 2

Special Handling:

☐ Standard TAT - 7 to 10 business days

☒ Rush TAT - Date Needed: 4/21/12

- All TATs subject to laboratory approval.

- Min. 24-hour notification needed for rushes.

- Samples disposed of after 60 days unless otherwise instructed.

Project No.: ~~111~~ 211509

Project No.: ~~MEC~~ 211504
Site Name: MPC-RES, 6
Location: BASIN 2 State: CT
Sampler(s): PLIMPTON

List preservative code below:							
QA/QC Reporting Notes:							

* additional charges may apply

Type	
Matrix	
# of V	
# of A	
# of C	
# of P	

[illegible]

Report Date:
10-Dec-13 14:17



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

TRC
21 Griffin Road North
Windsor, CT 06095
Attn: Erik Plimpton

Project: MDC - WWTP - Hartford, CT
Project #: 211304.0000.000

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB81510-01	01	Concrete	05-Dec-13 10:15	06-Dec-13 16:30
SB81510-02	02	Concrete	05-Dec-13 10:30	06-Dec-13 16:30
SB81510-03	03	Concrete	05-Dec-13 11:00	06-Dec-13 16:30
SB81510-04	04	Concrete	05-Dec-13 10:45	06-Dec-13 16:30
SB81510-05	05	Soil	05-Dec-13 11:25	06-Dec-13 16:30
SB81510-06	06	Soil	05-Dec-13 11:35	06-Dec-13 16:30
SB81510-07	07	Soil	05-Dec-13 11:45	06-Dec-13 16:30
SB81510-08	08	Soil	05-Dec-13 12:20	06-Dec-13 16:30
SB81510-09	09	Soil	05-Dec-13 12:30	06-Dec-13 16:30
SB81510-10	10	Soil	05-Dec-13 12:40	06-Dec-13 16:30

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435



Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 17 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, NJ-MA012, PA-68-04426 and FL-E87936).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

**Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form**

Laboratory Name: Spectrum Analytical, Inc.

Client: TRC - Windsor, CT

Project Location: MDC - WWTP - Hartford, CT

Project Number: 211304.0000.000

Sampling Date(s):

12/5/2013

Laboratory Sample ID(s):

SB81510-01 through SB81510-10

RCP Methods Used:

SW846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes	No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes	No
1B	<i>VPH and EPH methods only:</i> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	Yes	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	✓ Yes	No
3	Were samples received at an appropriate temperature?	✓ Yes	No
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	✓ Yes	No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	Yes Yes	✓ No No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	✓ Yes	No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	✓ Yes	No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.



Nicole Leja
Laboratory Director
Date: 12/10/2013

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The samples were received 0.1 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctafluorobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Samples:

SB81510-08 08

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sample Acceptance Check Form

Client: TRC - Windsor, CT
 Project: MDC - WWTP - Hartford, CT / 211304.0000.000
 Work Order: SB81510
 Sample(s) received on: 12/6/2013
 Received by: Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
1. Were custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Were custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Were samples cooled on ice upon transfer to laboratory representative?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Were samples refrigerated upon transfer to laboratory representative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sample Identification

01

SB81510-01

Client Project #

211304.0000.000

Matrix

Concrete

Collection Date/Time

05-Dec-13 10:15

Received

06-Dec-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 21.1		µg/kg dry	21.1	15.7	1	SW846 8082A	06-Dec-13	09-Dec-13	IMR	1329493	X
11104-28-2	Aroclor-1221	< 21.1		µg/kg dry	21.1	19.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.1		µg/kg dry	21.1	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.1		µg/kg dry	21.1	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	127		µg/kg dry	21.1	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.1		µg/kg dry	21.1	17.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.1		µg/kg dry	21.1	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.1		µg/kg dry	21.1	19.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.1		µg/kg dry	21.1	8.69	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	92.4			%			1	SM2540 G Mod.	09-Dec-13	09-Dec-13	DT	1329563	
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This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

02

SB81510-02

Client Project #

211304.0000.000

Matrix

Concrete

Collection Date/Time

05-Dec-13 10:30

Received

06-Dec-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 20.9		µg/kg dry	20.9	15.6	1	SW846 8082A	06-Dec-13	09-Dec-13	IMR	1329493	X
11104-28-2	Aroclor-1221	< 20.9		µg/kg dry	20.9	18.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.9		µg/kg dry	20.9	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.9		µg/kg dry	20.9	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	70.0		µg/kg dry	20.9	9.18	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	70.0		µg/kg dry	20.9	17.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.9		µg/kg dry	20.9	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.9		µg/kg dry	20.9	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.9		µg/kg dry	20.9	8.63	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	70			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	93.3			%			1	SM2540 G Mod.	09-Dec-13	09-Dec-13	DT	1329563	
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This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

03

SB81510-03

Client Project #

211304.0000.000

Matrix

Concrete

Collection Date/Time

05-Dec-13 11:00

Received

06-Dec-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 20.4		µg/kg dry	20.4	15.3	1	SW846 8082A	06-Dec-13	09-Dec-13	IMR	1329493	X
11104-28-2	Aroclor-1221	< 20.4		µg/kg dry	20.4	18.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.4		µg/kg dry	20.4	13.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.4		µg/kg dry	20.4	12.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	32.7		µg/kg dry	20.4	10.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.4		µg/kg dry	20.4	17.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.4		µg/kg dry	20.4	12.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.4		µg/kg dry	20.4	19.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.4		µg/kg dry	20.4	8.43	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	70			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	94.4			%			1	SM2540 G Mod.	09-Dec-13	09-Dec-13	DT	1329563	
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Sample Identification

04

SB81510-04

Client Project #

211304.0000.000

Matrix

Concrete

Collection Date/Time

05-Dec-13 10:45

Received

06-Dec-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 62.0		µg/kg dry	62.0	46.3	1	SW846 8082A	06-Dec-13	09-Dec-13	IMR	1329493	X
11104-28-2	Aroclor-1221	< 62.0		µg/kg dry	62.0	55.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 62.0		µg/kg dry	62.0	39.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 62.0		µg/kg dry	62.0	37.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 62.0		µg/kg dry	62.0	32.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 62.0		µg/kg dry	62.0	51.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 62.0		µg/kg dry	62.0	38.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 62.0		µg/kg dry	62.0	57.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 62.0		µg/kg dry	62.0	25.6	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	95.1	%					1	SM2540 G Mod.	09-Dec-13	09-Dec-13	DT	1329563	
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Sample Identification

05

SB81510-05

Client Project #

211304.0000.000

Matrix

Soil

Collection Date/Time

05-Dec-13 11:25

Received

06-Dec-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 19.8		µg/kg dry	19.8	14.8	1	SW846 8082A	06-Dec-13	09-Dec-13	IMR	1329493	X
11104-28-2	Aroclor-1221	< 19.8		µg/kg dry	19.8	17.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 19.8		µg/kg dry	19.8	12.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 19.8		µg/kg dry	19.8	11.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	34.7		µg/kg dry	19.8	8.71	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 19.8		µg/kg dry	19.8	16.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 19.8		µg/kg dry	19.8	12.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 19.8		µg/kg dry	19.8	18.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 19.8		µg/kg dry	19.8	8.18	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	93.9			%			1	SM2540 G Mod.	09-Dec-13	09-Dec-13	DT	1329563	
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Sample Identification

06

SB81510-06

Client Project #

211304.0000.000

Matrix

Soil

Collection Date/Time

05-Dec-13 11:35

Received

06-Dec-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 21.5		µg/kg dry	21.5	16.1	1	SW846 8082A	06-Dec-13	09-Dec-13	IMR	1329493	X
11104-28-2	Aroclor-1221	< 21.5		µg/kg dry	21.5	19.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.5		µg/kg dry	21.5	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.5		µg/kg dry	21.5	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	24.7		µg/kg dry	21.5	9.44	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.5		µg/kg dry	21.5	17.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.5		µg/kg dry	21.5	13.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.5		µg/kg dry	21.5	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.5		µg/kg dry	21.5	8.87	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	115			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	120			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	91.0			%			1	SM2540 G Mod.	09-Dec-13	09-Dec-13	DT	1329564	
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Sample Identification

07

SB81510-07

Client Project #

211304.0000.000

Matrix

Soil

Collection Date/Time

05-Dec-13 11:45

Received

06-Dec-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 21.4		µg/kg dry	21.4	16.0	1	SW846 8082A	06-Dec-13	09-Dec-13	IMR	1329493	X
11104-28-2	Aroclor-1221	< 21.4		µg/kg dry	21.4	19.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.4		µg/kg dry	21.4	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.4		µg/kg dry	21.4	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	54.6		µg/kg dry	21.4	9.41	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	66.4		µg/kg dry	21.4	12.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.4		µg/kg dry	21.4	13.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.4		µg/kg dry	21.4	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.4		µg/kg dry	21.4	8.84	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	92.0			%			1	SM2540 G Mod.	09-Dec-13	09-Dec-13	DT	1329564	
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Sample Identification

08

SB81510-08

Client Project #

211304.0000.000

Matrix

Soil

Collection Date/Time

05-Dec-13 12:20

Received

06-Dec-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 204	D	µg/kg dry	204	153	10	SW846 8082A	06-Dec-13	10-Dec-13	IMR	1329493	X
11104-28-2	Aroclor-1221	< 204	D	µg/kg dry	204	184	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 204	D	µg/kg dry	204	131	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 204	D	µg/kg dry	204	123	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	4,500	D	µg/kg dry	204	89.8	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	6,510	D	µg/kg dry	204	120	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 204	D	µg/kg dry	204	127	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 204	D	µg/kg dry	204	190	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 204	D	µg/kg dry	204	84.3	10	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	90.2	%					1	SM2540 G Mod.	09-Dec-13	09-Dec-13	DT	1329564	
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Sample Identification

09

SB81510-09

Client Project #

211304.0000.000

Matrix

Soil

Collection Date/Time

05-Dec-13 12:30

Received

06-Dec-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 20.2		µg/kg dry	20.2	15.1	1	SW846 8082A	06-Dec-13	09-Dec-13	IMR	1329493	X
11104-28-2	Aroclor-1221	< 20.2		µg/kg dry	20.2	18.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.2		µg/kg dry	20.2	12.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.2		µg/kg dry	20.2	12.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	1,830		µg/kg dry	20.2	8.85	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.2		µg/kg dry	20.2	16.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.2		µg/kg dry	20.2	12.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.2		µg/kg dry	20.2	18.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.2		µg/kg dry	20.2	8.31	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	110			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	91.3			%			1	SM2540 G Mod.	09-Dec-13	09-Dec-13	DT	1329564	
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Sample Identification

10

SB81510-10

Client Project #

211304.0000.000

Matrix

Soil

Collection Date/Time

05-Dec-13 12:40

Received

06-Dec-13

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 21.8		µg/kg dry	21.8	16.3	1	SW846 8082A	06-Dec-13	09-Dec-13	IMR	1329493	X
11104-28-2	Aroclor-1221	< 21.8		µg/kg dry	21.8	19.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.8		µg/kg dry	21.8	14.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.8		µg/kg dry	21.8	13.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	968		µg/kg dry	21.8	9.56	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	967		µg/kg dry	21.8	12.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.8		µg/kg dry	21.8	13.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.8		µg/kg dry	21.8	20.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.8		µg/kg dry	21.8	8.99	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	70			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	91.4			%			1	SM2540 G Mod.	09-Dec-13	09-Dec-13	DT	1329564	
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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1329493 - SW846 3540C										
Blank (1329493-BLK1)					Prepared: 06-Dec-13 Analyzed: 09-Dec-13					
Aroclor-1016	< 19.1		µg/kg wet	19.1						
Aroclor-1016 [2C]	< 19.1		µg/kg wet	19.1						
Aroclor-1221	< 19.1		µg/kg wet	19.1						
Aroclor-1221 [2C]	< 19.1		µg/kg wet	19.1						
Aroclor-1232	< 19.1		µg/kg wet	19.1						
Aroclor-1232 [2C]	< 19.1		µg/kg wet	19.1						
Aroclor-1242	< 19.1		µg/kg wet	19.1						
Aroclor-1242 [2C]	< 19.1		µg/kg wet	19.1						
Aroclor-1248	< 19.1		µg/kg wet	19.1						
Aroclor-1248 [2C]	< 19.1		µg/kg wet	19.1						
Aroclor-1254	< 19.1		µg/kg wet	19.1						
Aroclor-1254 [2C]	< 19.1		µg/kg wet	19.1						
Aroclor-1260	< 19.1		µg/kg wet	19.1						
Aroclor-1260 [2C]	< 19.1		µg/kg wet	19.1						
Aroclor-1262	< 19.1		µg/kg wet	19.1						
Aroclor-1262 [2C]	< 19.1		µg/kg wet	19.1						
Aroclor-1268	< 19.1		µg/kg wet	19.1						
Aroclor-1268 [2C]	< 19.1		µg/kg wet	19.1						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	14.3		µg/kg wet		19.1		75	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	16.2		µg/kg wet		19.1		85	30-150		
Surrogate: Decachlorobiphenyl (Sr)	18.2		µg/kg wet		19.1		95	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	20.1		µg/kg wet		19.1		105	30-150		
LCS (1329493-BS1)					Prepared: 06-Dec-13 Analyzed: 09-Dec-13					
Aroclor-1016	177		µg/kg wet	19.4	242		73	40-140		
Aroclor-1016 [2C]	180		µg/kg wet	19.4	242		74	40-140		
Aroclor-1260	187		µg/kg wet	19.4	242		77	40-140		
Aroclor-1260 [2C]	178		µg/kg wet	19.4	242		74	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.5		µg/kg wet		19.4		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	16.5		µg/kg wet		19.4		85	30-150		
Surrogate: Decachlorobiphenyl (Sr)	20.3		µg/kg wet		19.4		105	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	20.3		µg/kg wet		19.4		105	30-150		
LCS Dup (1329493-BSD1)					Prepared: 06-Dec-13 Analyzed: 09-Dec-13					
Aroclor-1016	178		µg/kg wet	19.7	246		72	40-140	1	30
Aroclor-1016 [2C]	186		µg/kg wet	19.7	246		76	40-140	2	30
Aroclor-1260	192		µg/kg wet	19.7	246		78	40-140	1	30
Aroclor-1260 [2C]	184		µg/kg wet	19.7	246		75	40-140	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.8		µg/kg wet		19.7		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	16.8		µg/kg wet		19.7		85	30-150		
Surrogate: Decachlorobiphenyl (Sr)	21.7		µg/kg wet		19.7		110	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	19.7		µg/kg wet		19.7		100	30-150		

This laboratory report is not valid without an authorized signature on the cover page.

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1329564 - General Preparation										
<u>Duplicate (1329564-DUP1)</u>				<u>Source: SB81510-06</u>		<u>Prepared & Analyzed: 09-Dec-13</u>				
% Solids	90.6		%			91.0			0.5	20

Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Rebecca Merz

CHAIN OF CUSTODY RECORD

Page 4 of 4

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 4/8 hr TAT
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: TRC Environmental

Invoice To:

(Same as Report)

Project No.: 211304, 0000, en

Site Name: MDC - Reservoir #

Location: W. Hartford

State: CT

Telephone #: 860-298-9692

P.O. No.: C211304

RQN:

Sampler(s): G. Kaczynski

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ 11=Ice 12=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=Concrete X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	List preservative code below:	Analyses:	QA/QC Reporting Level	State-specific reporting standards:
8151001	01	12/5/13	1030	G	X1	1	1	1	1	1	8082/3540C		Standard	Bash 1 - Concrete - 7"
02	02		1100			1	1	1	1	1			Standard	- 5" (deep)
03	03		1045			1	1	1	1	1			Standard	- 10"
04	04		1125			1	1	1	1	1			Standard	- Soil - South - 10"
05	05		1135			1	1	1	1	1			Standard	- center - 15"
06	06		1145			1	1	1	1	1			Standard	- North - 10"
07	07		1220			1	1	1	1	1			Standard	- North - 11"
08	08		1230			1	1	1	1	1			Standard	- center - 16"
09	09		1240			1	1	1	1	1			Standard	- South - 18"
10	10					1	1	1	1	1			Standard	

Relinquished by:

Received by:

Date:

Time:

Temp °C

☐ EDD Format

☒ E-mail to EP.limpson@TRCsolutions.com

Condition upon receipt: ☒ Ambient ☐ Ice ☒ Refrigerated ☐ DV VOA Frozen ☐ Soil Jar Frozen

Report Date:
21-Feb-14 15:36



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

TRC
21 Griffin Road North
Windsor, CT 06095
Attn: Erik Plimpton

Project: MDC - Reservoir #6 (Basin 2)-West Hartford, CT
Project #: 211304.0000.0000

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB84794-01	0-C-14"	Concrete	18-Feb-14 10:40	19-Feb-14 13:15
SB84794-02	0-C-16"	Concrete	18-Feb-14 10:30	19-Feb-14 13:15
SB84794-03	0-C-3"D	Concrete	18-Feb-14 11:00	19-Feb-14 13:15
SB84794-04	3/4-C-14"	Concrete	18-Feb-14 11:30	19-Feb-14 13:15
SB84794-05	3/4-C-16"	Concrete	18-Feb-14 11:40	19-Feb-14 13:15
SB84794-06	3/4-C-3"D	Concrete	18-Feb-14 13:10	19-Feb-14 13:15
SB84794-07	8/9-C-14"	Concrete	18-Feb-14 13:30	19-Feb-14 13:15
SB84794-08	8/9-C-16"	Concrete	18-Feb-14 14:00	19-Feb-14 13:15
SB84794-09	8/9-C-3"D	Concrete	18-Feb-14 14:20	19-Feb-14 13:15
SB84794-10	8/9-C-6"D	Concrete	18-Feb-14 14:40	19-Feb-14 13:15

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435



Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 16 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, NJ-MA012, PA-68-04426 and FL-E87936).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

**Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form**

Laboratory Name: Spectrum Analytical, Inc.

Client: TRC - Windsor, CT

Project Location: MDC - Reservoir #6 (Basin 2)-West

Project Number: 211304.0000.0000

Sampling Date(s):
Hartford, CT
2/18/2014

Laboratory Sample ID(s):

SB84794-01 through SB84794-10

RCP Methods Used:

SW846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes	No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes	No
1B	<i>VPH and EPH methods only:</i> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	Yes	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	✓ Yes	No
3	Were samples received at an appropriate temperature?	✓ Yes	No
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	✓ Yes	No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	Yes Yes	✓ No No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	✓ Yes	No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes	✓ No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.



Nicole Leja
Laboratory Director
Date: 2/21/2014

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The samples were received 0.0 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctafluorobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Acceptance Check Form

Client: TRC - Windsor, CT
Project: MDC - Reservoir #6 (Basin 2)-West Hartford, CT / 211304.0000.0000
Work Order: SB84794
Sample(s) received on: 2/19/2014
Received by: Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
1. Were custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Were custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Were samples cooled on ice upon transfer to laboratory representative?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Were samples refrigerated upon transfer to laboratory representative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sample Identification

0-C-14"

SB84794-01

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

18-Feb-14 10:40

Received

19-Feb-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 69.4		µg/kg dry	69.4	51.8	1	SW846 8082A	19-Feb-14	20-Feb-14	IMR	1403715	X
11104-28-2	Aroclor-1221	< 69.4		µg/kg dry	69.4	62.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 69.4		µg/kg dry	69.4	44.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 69.4		µg/kg dry	69.4	41.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	1,230		µg/kg dry	69.4	30.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	881		µg/kg dry	69.4	40.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 69.4		µg/kg dry	69.4	43.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 69.4		µg/kg dry	69.4	64.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 69.4		µg/kg dry	69.4	28.6	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	92.3	%					1	SM2540 G Mod.	19-Feb-14	19-Feb-14	DT	1403718	
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This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

0-C-16"

SB84794-02

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

18-Feb-14 10:30

Received

19-Feb-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 67.8		µg/kg dry	67.8	50.6	1	SW846 8082A	19-Feb-14	20-Feb-14	IMR	1403715	X
11104-28-2	Aroclor-1221	< 67.8		µg/kg dry	67.8	61.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 67.8		µg/kg dry	67.8	43.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 67.8		µg/kg dry	67.8	40.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	830		µg/kg dry	67.8	35.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	745		µg/kg dry	67.8	39.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 67.8		µg/kg dry	67.8	42.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 67.8		µg/kg dry	67.8	63.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 67.8		µg/kg dry	67.8	28.0	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	92.2			%			1	SM2540 G Mod.	19-Feb-14	19-Feb-14	DT	1403718	
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Sample Identification

0-C-3"D

SB84794-03

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

18-Feb-14 11:00

Received

19-Feb-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 68.2		µg/kg dry	68.2	51.0	1	SW846 8082A	19-Feb-14	20-Feb-14	IMR	1403715	X
11104-28-2	Aroclor-1221	< 68.2		µg/kg dry	68.2	61.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 68.2		µg/kg dry	68.2	43.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 68.2		µg/kg dry	68.2	41.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	88.7		µg/kg dry	68.2	30.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	140		µg/kg dry	68.2	56.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 68.2		µg/kg dry	68.2	42.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 68.2		µg/kg dry	68.2	63.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 68.2		µg/kg dry	68.2	28.1	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	95.4		%				1	SM2540 G Mod.	19-Feb-14	19-Feb-14	DT	1403718	
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Sample Identification

3/4-C-14"

SB84794-04

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

18-Feb-14 11:30

Received

19-Feb-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 73.0		µg/kg dry	73.0	54.5	1	SW846 8082A	19-Feb-14	20-Feb-14	IMR	1403715	X
11104-28-2	Aroclor-1221	< 73.0		µg/kg dry	73.0	65.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 73.0		µg/kg dry	73.0	46.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 73.0		µg/kg dry	73.0	43.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	6,800		µg/kg dry	73.0	32.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	14,700		µg/kg dry	73.0	42.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	3,240		µg/kg dry	73.0	45.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 73.0		µg/kg dry	73.0	68.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 73.0		µg/kg dry	73.0	30.1	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	90.3			%			1	SM2540 G Mod.	19-Feb-14	19-Feb-14	DT	1403718	
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Sample Identification

3/4-C-16"	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB84794-05	211304.0000.0000	Concrete	18-Feb-14 11:40	19-Feb-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 67.1		µg/kg dry	67.1	50.1	1	SW846 8082A	19-Feb-14	20-Feb-14	IMR	1403715	X
11104-28-2	Aroclor-1221	< 67.1		µg/kg dry	67.1	60.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 67.1		µg/kg dry	67.1	43.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 67.1		µg/kg dry	67.1	40.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	3,710		µg/kg dry	67.1	29.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	8,650		µg/kg dry	67.1	39.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	1,330		µg/kg dry	67.1	33.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 67.1		µg/kg dry	67.1	62.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 67.1		µg/kg dry	67.1	27.7	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	89.7	%					1	SM2540 G Mod.	19-Feb-14	19-Feb-14	DT	1403718	
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Sample Identification

3/4-C-3"D	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB84794-06	211304.0000.0000	Concrete	18-Feb-14 13:10	19-Feb-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 62.4		µg/kg dry	62.4	46.6	1	SW846 8082A	19-Feb-14	20-Feb-14	IMR	1403715	X
11104-28-2	Aroclor-1221	< 62.4		µg/kg dry	62.4	56.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 62.4		µg/kg dry	62.4	40.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 62.4		µg/kg dry	62.4	37.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	168		µg/kg dry	62.4	27.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	190		µg/kg dry	62.4	36.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 62.4		µg/kg dry	62.4	38.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 62.4		µg/kg dry	62.4	58.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 62.4		µg/kg dry	62.4	25.7	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	94.4	%					1	SM2540 G Mod.	19-Feb-14	19-Feb-14	DT	1403718	
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Sample Identification

8/9-C-14"	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB84794-07	211304.0000.0000	Concrete	18-Feb-14 13:30	19-Feb-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 66.3		µg/kg dry	66.3	49.5	1	SW846 8082A	19-Feb-14	20-Feb-14	IMR	1403715	X
11104-28-2	Aroclor-1221	< 66.3		µg/kg dry	66.3	59.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 66.3		µg/kg dry	66.3	42.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 66.3		µg/kg dry	66.3	39.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	1,820		µg/kg dry	66.3	34.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	4,380		µg/kg dry	66.3	38.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	2,210		µg/kg dry	66.3	41.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 66.3		µg/kg dry	66.3	61.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 66.3		µg/kg dry	66.3	27.4	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	89.6	%					1	SM2540 G Mod.	19-Feb-14	19-Feb-14	DT	1403718	
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Sample Identification

8/9-C-16"	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB84794-08	211304.0000.0000	Concrete	18-Feb-14 14:00	19-Feb-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 63.8		µg/kg dry	63.8	47.7	1	SW846 8082A	19-Feb-14	20-Feb-14	IMR	1403715	X
11104-28-2	Aroclor-1221	< 63.8		µg/kg dry	63.8	57.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 63.8		µg/kg dry	63.8	41.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 63.8		µg/kg dry	63.8	38.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	1,940		µg/kg dry	63.8	28.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	4,730		µg/kg dry	63.8	37.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	2,170		µg/kg dry	63.8	39.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 63.8		µg/kg dry	63.8	59.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 63.8		µg/kg dry	63.8	26.3	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	92.0	%					1	SM2540 G Mod.	19-Feb-14	19-Feb-14	DT	1403718	
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Sample Identification

8/9-C-3"D

SB84794-09

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
18-Feb-14 14:20

Received
19-Feb-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 66.5		µg/kg dry	66.5	49.7	1	SW846 8082A	19-Feb-14	20-Feb-14	IMR	1403715	X
11104-28-2	Aroclor-1221	< 66.5		µg/kg dry	66.5	59.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 66.5		µg/kg dry	66.5	42.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 66.5		µg/kg dry	66.5	40.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	136		µg/kg dry	66.5	29.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	253		µg/kg dry	66.5	38.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	76.5		µg/kg dry	66.5	41.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 66.5		µg/kg dry	66.5	61.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 66.5		µg/kg dry	66.5	27.4	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	93.1			%			1	SM2540 G Mod.	19-Feb-14	19-Feb-14	DT	1403718	
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Sample Identification

8/9-C-6"D	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB84794-10	211304.0000.0000	Concrete	18-Feb-14 14:40	19-Feb-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 60.1		µg/kg dry	60.1	44.9	1	SW846 8082A	19-Feb-14	20-Feb-14	IMR	1403715	X
11104-28-2	Aroclor-1221	< 60.1		µg/kg dry	60.1	54.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 60.1		µg/kg dry	60.1	38.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 60.1		µg/kg dry	60.1	36.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 60.1		µg/kg dry	60.1	31.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 60.1		µg/kg dry	60.1	50.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 60.1		µg/kg dry	60.1	37.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 60.1		µg/kg dry	60.1	56.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 60.1		µg/kg dry	60.1	24.8	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	95.4	%					1	SM2540 G Mod.	19-Feb-14	19-Feb-14	DT	1403718	
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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1403715 - SW846 3540C										
Blank (1403715-BLK1)					Prepared: 19-Feb-14 Analyzed: 20-Feb-14					
Aroclor-1016	< 19.7		µg/kg wet	19.7						
Aroclor-1016 [2C]	< 19.7		µg/kg wet	19.7						
Aroclor-1221	< 19.7		µg/kg wet	19.7						
Aroclor-1221 [2C]	< 19.7		µg/kg wet	19.7						
Aroclor-1232	< 19.7		µg/kg wet	19.7						
Aroclor-1232 [2C]	< 19.7		µg/kg wet	19.7						
Aroclor-1242	< 19.7		µg/kg wet	19.7						
Aroclor-1242 [2C]	< 19.7		µg/kg wet	19.7						
Aroclor-1248	< 19.7		µg/kg wet	19.7						
Aroclor-1248 [2C]	< 19.7		µg/kg wet	19.7						
Aroclor-1254	< 19.7		µg/kg wet	19.7						
Aroclor-1254 [2C]	< 19.7		µg/kg wet	19.7						
Aroclor-1260	< 19.7		µg/kg wet	19.7						
Aroclor-1260 [2C]	< 19.7		µg/kg wet	19.7						
Aroclor-1262	< 19.7		µg/kg wet	19.7						
Aroclor-1262 [2C]	< 19.7		µg/kg wet	19.7						
Aroclor-1268	< 19.7		µg/kg wet	19.7						
Aroclor-1268 [2C]	< 19.7		µg/kg wet	19.7						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	13.8		µg/kg wet		19.7		70	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	15.8		µg/kg wet		19.7		80	30-150		
Surrogate: Decachlorobiphenyl (Sr)	15.8		µg/kg wet		19.7		80	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	15.8		µg/kg wet		19.7		80	30-150		
LCS (1403715-BS1)					Prepared: 19-Feb-14 Analyzed: 20-Feb-14					
Aroclor-1016	211		µg/kg wet	19.6	245		86	40-140		
Aroclor-1016 [2C]	227		µg/kg wet	19.6	245		93	40-140		
Aroclor-1260	238		µg/kg wet	19.6	245		97	40-140		
Aroclor-1260 [2C]	224		µg/kg wet	19.6	245		92	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.6		µg/kg wet		19.6		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	18.6		µg/kg wet		19.6		95	30-150		
Surrogate: Decachlorobiphenyl (Sr)	19.6		µg/kg wet		19.6		100	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	18.6		µg/kg wet		19.6		95	30-150		
LCS Dup (1403715-BSD1)					Prepared: 19-Feb-14 Analyzed: 20-Feb-14					
Aroclor-1016	210		µg/kg wet	19.8	247		85	40-140	0.9	30
Aroclor-1016 [2C]	229		µg/kg wet	19.8	247		93	40-140	0.00002	30
Aroclor-1260	248		µg/kg wet	19.8	247		100	40-140	3	30
Aroclor-1260 [2C]	224		µg/kg wet	19.8	247		91	40-140	0.9	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.8		µg/kg wet		19.8		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	18.8		µg/kg wet		19.8		95	30-150		
Surrogate: Decachlorobiphenyl (Sr)	20.7		µg/kg wet		19.8		105	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	18.8		µg/kg wet		19.8		95	30-150		

This laboratory report is not valid without an authorized signature on the cover page.

Notes and Definitions

dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

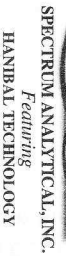
Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Rebecca Merz



Utilize CTDA5 Rates

84794 SR

Page 1 of 1

Invoice To:

Project No.: 21304Cm, 0000

Site Name: MDC - ~~Reservoir #6~~ Reservoir #6 (Brisht)

Location: West Hartford State: CT

Telephone #: 860-298-9692
Project Mgr. Erik Plompton

P.O. No.: C211304

RQN:

Sampler(s): G. Kaczynski, H. Hernandez

1= $\text{Na}_2\text{S}_2\text{O}_3$ 2= HCl 3= H_2SO_4 4= HNO_3 5= NaOH 6=Ascorbic Acid 7= CH_3OH
8= NaHSO_4 9=Deionized Water 10= H_3PO_4 11=_____ 12=_____


List preservative code below:


QA/QC Reporting Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=*cerm₁₀* X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of V	# of A	# of C	# of PL	Temp °C
84794-01	0-C-14"	2/18/14	1040	G	X4					X
-02	0-C-16"		1030							X
-03	0-C-3"D		1100							X
-04	3/4-C-14"		1130							X
-05	3/4-C-16"		1140							X
-06	3/4-C-3"D		1310							X
-07	8/9-C-14"		1330							X
-08	8/9-C-16"		1400							X
-09	8/9-C-3"D		1420							X
-10	8/9-C-6"D		1440							X

Relinquished by: 

Received by: 

Date: 2-19-14

Time: 10:40

Condition upon receipt: ☒ Custody Seals: ☐ Present ☐ Intact ☐ Broken

☐ Ambient ☐ Iced ☒ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

☐ EDD Format

☒ E-mail to CKaczynski@TRISolutions.com

10/0 IR

2/19/14 (3.5-4.0" deep)

(4"-4.5" deep)

(3.5-4.0" deep)

☐ TIER II* ☐ TIER IV*

State-specific reporting standards: ☐ Other

Report Date:
18-Mar-14 16:39



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

TRC
21 Griffin Road North
Windsor, CT 06095
Attn: Erik Plimpton

Project: MDC - Reservoir #6 (Basin 1)-West Hartford, CT
Project #: 211304.0000.0000

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB85918-01	EJ1	Caulk	10-Mar-14 10:55	13-Mar-14 15:50
SB85918-02	EJ2	Caulk	10-Mar-14 10:59	13-Mar-14 15:50
SB85918-03	EJ3	Caulk	10-Mar-14 11:03	13-Mar-14 15:50
SB85918-04	T1	Caulk	10-Mar-14 10:45	13-Mar-14 15:50
SB85918-05	T2	Caulk	10-Mar-14 10:55	13-Mar-14 15:50
SB85918-06	T3	Caulk	10-Mar-14 10:50	13-Mar-14 15:50
SB85918-07	C1	Cork	10-Mar-14 11:10	13-Mar-14 15:50
SB85918-08	C2	Cork	10-Mar-14 11:15	13-Mar-14 15:50
SB85918-09	C3	Cork	10-Mar-14 11:18	13-Mar-14 15:50
SB85918-10	0-G-6"	Concrete	10-Mar-14 13:15	13-Mar-14 15:50
SB85918-11	0-G-12"	Concrete	10-Mar-14 13:20	13-Mar-14 15:50
SB85918-12	0-G-18"	Concrete	10-Mar-14 13:23	13-Mar-14 15:50
SB85918-13	0-G-24"	Concrete	10-Mar-14 13:27	13-Mar-14 15:50
SB85918-14	0-G-6"D	Concrete	10-Mar-14 13:40	13-Mar-14 15:50
SB85918-15	0-G-12"D	Concrete	10-Mar-14 13:47	13-Mar-14 15:50
SB85918-16	18-G-6"	Concrete	11-Mar-14 10:35	13-Mar-14 15:50
SB85918-17	18-G-12"	Concrete	11-Mar-14 10:21	13-Mar-14 15:50
SB85918-18	18-G-18"	Concrete	11-Mar-14 10:18	13-Mar-14 15:50
SB85918-19	18-G-24"	Concrete	11-Mar-14 10:15	13-Mar-14 15:50
SB85918-20	18-G-6"D	Concrete	11-Mar-14 10:45	13-Mar-14 15:50
SB85918-21	18-G-12"D	Concrete	11-Mar-14 10:40	13-Mar-14 15:50
SB85918-22	3/4-G-6"	Concrete	10-Mar-14 14:00	13-Mar-14 15:50
SB85918-23	3/4-G-12"	Concrete	10-Mar-14 14:05	13-Mar-14 15:50
SB85918-24	3/4-G-18"	Concrete	10-Mar-14 14:08	13-Mar-14 15:50
SB85918-25	3/4-G-24"	Concrete	10-Mar-14 14:11	13-Mar-14 15:50
SB85918-26	3/4-G-6"D	Concrete	10-Mar-14 14:17	13-Mar-14 15:50
SB85918-27	3/4-G-12"D	Concrete	10-Mar-14 14:30	13-Mar-14 15:50
SB85918-28	7/8-G-6"	Concrete	11-Mar-14 09:15	13-Mar-14 15:50
SB85918-29	7/8-G-12"	Concrete	11-Mar-14 09:13	13-Mar-14 15:50
SB85918-30	7/8-G-18"	Concrete	11-Mar-14 09:10	13-Mar-14 15:50
SB85918-31	7/8-G-24"	Concrete	11-Mar-14 09:07	13-Mar-14 15:50
SB85918-32	7/8-G-6"D	Concrete	11-Mar-14 09:25	13-Mar-14 15:50
SB85918-33	7/8-G-12"D	Concrete	11-Mar-14 09:20	13-Mar-14 15:50
SB85918-34	13/14-G-6"	Concrete	11-Mar-14 13:14	13-Mar-14 15:50
SB85918-35	13/14-G-12"	Concrete	11-Mar-14 13:11	13-Mar-14 15:50
SB85918-36	13/14-G-18"	Concrete	11-Mar-14 13:08	13-Mar-14 15:50
SB85918-37	13/14-G-24"	Concrete	11-Mar-14 13:05	13-Mar-14 15:50

SB85918-38	13/14-G-6"D	Concrete	11-Mar-14 13:27	13-Mar-14 15:50
SB85918-39	13/14-G-12"D	Concrete	11-Mar-14 13:20	13-Mar-14 15:50
SB85918-40	17/18-G-6"	Concrete	11-Mar-14 11:02	13-Mar-14 15:50
SB85918-41	17/18-G-12"	Concrete	11-Mar-14 10:58	13-Mar-14 15:50
SB85918-42	17/18-G-18"	Concrete	11-Mar-14 10:54	13-Mar-14 15:50
SB85918-43	17/18-G-24"	Concrete	11-Mar-14 10:50	13-Mar-14 15:50
SB85918-44	17/18-G-6"D	Concrete	11-Mar-14 11:06	13-Mar-14 15:50
SB85918-45	17/18-G-12"D	Concrete	11-Mar-14 11:08	13-Mar-14 15:50
SB85918-46	7/8-F-0"	Concrete	11-Mar-14 09:50	13-Mar-14 15:50
SB85918-47	7/8-F-3"	Concrete	11-Mar-14 09:47	13-Mar-14 15:50

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435



Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 61 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, NJ-MA012, PA-68-04426 and FL-E87936).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

**Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form**

Laboratory Name: Spectrum Analytical, Inc.

Client: TRC - Windsor, CT

Project Location: MDC - Reservoir #6 (Basin 1)-West

Project Number: 211304.0000.0000

Sampling Date(s):

Laboratory Sample ID(s):

3/10/2014 through 3/11/2014

SB85918-01 through SB85918-47

RCP Methods Used:

SW846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes	No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes	No
1B	<i>VPH and EPH methods only:</i> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	Yes	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	✓ Yes	No
3	Were samples received at an appropriate temperature?	✓ Yes	No
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	Yes	✓ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	Yes Yes	✓ No No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	✓ Yes	No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	✓ Yes	No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.



Nicole Leja
Laboratory Director
Date: 3/18/2014

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The samples were received 3.7 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctafluorobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Spikes:

1405508-MS1 *Source: SB85918-32*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Aroclor-1016
Aroclor-1016 [2C]
Aroclor-1260
Aroclor-1260 [2C]

1405508-MSD1 *Source: SB85918-32*

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

Aroclor-1016
Aroclor-1016 [2C]
Aroclor-1260
Aroclor-1260 [2C]

Samples:

SB85918-01 *EJ1*

Samples:SB85918-01 *EJ1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)
4,4-DB-Octafluorobiphenyl (Sr) [2C]
Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

SB85918-02 *EJ2*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)
4,4-DB-Octafluorobiphenyl (Sr) [2C]
Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

SB85918-03 *EJ3*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)
4,4-DB-Octafluorobiphenyl (Sr) [2C]
Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

SB85918-05 *T2*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)
4,4-DB-Octafluorobiphenyl (Sr) [2C]
Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

SB85918-07 *CI*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

4,4-DB-Octafluorobiphenyl (Sr)
4,4-DB-Octafluorobiphenyl (Sr) [2C]
Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

SB85918-25 *3/4-G-24"*

SW846 8082A

Samples:

SB85918-25 *3/4-G-24"*

Difference between the two GC columns is greater than 40%.

Aroclor-1248 [2C]

SB85918-30 *7/8-G-18"*

Difference between the two GC columns is greater than 40%.

Aroclor-1254

Aroclor-1260

SB85918-41 *17/18-G-12"*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB85918-47 *7/8-F-3"*

Difference between the two GC columns is greater than 40%.

Aroclor-1254

Sample Acceptance Check Form

Client: TRC - Windsor, CT
 Project: MDC - Reservoir #6 (Basin 1)-West Hartford, CT / 211304.0000.0000
 Work Order: SB85918
 Sample(s) received on: 3/13/2014
 Received by: Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
1. Were custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Were custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Were samples cooled on ice upon transfer to laboratory representative?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Were samples refrigerated upon transfer to laboratory representative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sample Identification

EJ1

SB85918-01

Client Project #
211304.0000.0000

Matrix
Caulk

Collection Date/Time
10-Mar-14 10:55

Received
13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GC

Polychlorinated Biphenyls

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 1430000	D	µg/kg dry	1430000	1070000	5000	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	X
11104-28-2	Aroclor-1221	< 1430000	D	µg/kg dry	1430000	1290000	5000	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 1430000	D	µg/kg dry	1430000	917000	5000	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 1430000	D	µg/kg dry	1430000	859000	5000	"	"	"	"	"	X
12672-29-6	Aroclor-1248	341,000,000	D	µg/kg dry	1430000	743000	5000	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	221,000,000	D	µg/kg dry	1430000	836000	5000	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 1430000	D	µg/kg dry	1430000	886000	5000	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 1430000	D	µg/kg dry	1430000	1330000	5000	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 1430000	D	µg/kg dry	1430000	589000	5000	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	68.3	%					1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405549	
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This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

EJ2

SB85918-02

Client Project #

211304.0000.0000

Matrix

Caulk

Collection Date/Time

10-Mar-14 10:59

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GC

Polychlorinated Biphenyls

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 992000	D	µg/kg dry	992000	741000	5000	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	X
11104-28-2	Aroclor-1221	< 992000	D	µg/kg dry	992000	894000	5000	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 992000	D	µg/kg dry	992000	637000	5000	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 992000	D	µg/kg dry	992000	597000	5000	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 992000	D	µg/kg dry	992000	516000	5000	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	158,000,000	D	µg/kg dry	992000	581000	5000	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 992000	D	µg/kg dry	992000	615000	5000	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 992000	D	µg/kg dry	992000	924000	5000	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 992000	D	µg/kg dry	992000	409000	5000	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	82.0	%					1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405549	
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Sample Identification

EJ3

SB85918-03

Client Project #

211304.0000.0000

Matrix

Caulk

Collection Date/Time

10-Mar-14 11:03

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GC

Polychlorinated Biphenyls

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 962000	D	µg/kg dry	962000	719000	5000	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	X
11104-28-2	Aroclor-1221	< 962000	D	µg/kg dry	962000	867000	5000	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 962000	D	µg/kg dry	962000	618000	5000	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 962000	D	µg/kg dry	962000	579000	5000	"	"	"	"	"	X
12672-29-6	Aroclor-1248	238,000,000	D	µg/kg dry	962000	500000	5000	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	187,000,000	D	µg/kg dry	962000	563000	5000	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 962000	D	µg/kg dry	962000	596000	5000	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 962000	D	µg/kg dry	962000	896000	5000	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 962000	D	µg/kg dry	962000	397000	5000	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	67.1	%					1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405549	
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Sample Identification

T1

SB85918-04

Client Project #
211304.0000.0000Matrix
CaulkCollection Date/Time
10-Mar-14 10:45Received
13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 301		µg/kg dry	301	225	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	X
11104-28-2	Aroclor-1221	< 301		µg/kg dry	301	271	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 301		µg/kg dry	301	193	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 301		µg/kg dry	301	181	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	2,200		µg/kg dry	301	157	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 301		µg/kg dry	301	251	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 301		µg/kg dry	301	187	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 301		µg/kg dry	301	281	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 301		µg/kg dry	301	124	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	110			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	70			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	44.5			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405549	
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Sample Identification

T2

SB85918-05

Client Project #

211304.0000.0000

Matrix

Caulk

Collection Date/Time

10-Mar-14 10:55

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 29700	D	µg/kg dry	29700	22200	100	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	X
11104-28-2	Aroclor-1221	< 29700	D	µg/kg dry	29700	26800	100	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 29700	D	µg/kg dry	29700	19100	100	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 29700	D	µg/kg dry	29700	17900	100	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	1,620,000	D	µg/kg dry	29700	13000	100	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 29700	D	µg/kg dry	29700	24800	100	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 29700	D	µg/kg dry	29700	18400	100	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 29700	D	µg/kg dry	29700	27700	100	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 29700	D	µg/kg dry	29700	12300	100	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	60.1	%					1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405549	
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Sample Identification

T3

SB85918-06

Client Project #

211304.0000.0000

Matrix

Caulk

Collection Date/Time

10-Mar-14 10:50

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 311		µg/kg dry	311	233	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	X
11104-28-2	Aroclor-1221	< 311		µg/kg dry	311	281	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 311		µg/kg dry	311	200	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 311		µg/kg dry	311	187	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	5,700		µg/kg dry	311	137	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	5,740		µg/kg dry	311	182	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	872		µg/kg dry	311	156	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 311		µg/kg dry	311	290	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 311		µg/kg dry	311	128	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	120			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	43.5			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405549	
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Sample Identification

C1

SB85918-07

Client Project #

211304.0000.0000

Matrix

Cork

Collection Date/Time

10-Mar-14 11:10

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated Biphenyls

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 710000	D	µg/kg dry	710000	530000	1000	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	X
11104-28-2	Aroclor-1221	< 710000	D	µg/kg dry	710000	640000	1000	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 710000	D	µg/kg dry	710000	456000	1000	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 710000	D	µg/kg dry	710000	427000	1000	"	"	"	"	"	X
12672-29-6	Aroclor-1248	52,700,000	D	µg/kg dry	710000	369000	1000	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 710000	D	µg/kg dry	710000	592000	1000	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 710000	D	µg/kg dry	710000	440000	1000	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 710000	D	µg/kg dry	710000	661000	1000	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 710000	D	µg/kg dry	710000	293000	1000	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	0	S01		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	0	S01		30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	27.7	%					1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405549	
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Sample Identification

C2

SB85918-08

Client Project #

211304.0000.0000

Matrix

Cork

Collection Date/Time

10-Mar-14 11:15

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 888		µg/kg dry	888	663	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	X
11104-28-2	Aroclor-1221	< 888		µg/kg dry	888	800	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 888		µg/kg dry	888	570	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 888		µg/kg dry	888	534	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	6,080		µg/kg dry	888	390	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	14,600		µg/kg dry	888	520	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 888		µg/kg dry	888	551	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 888		µg/kg dry	888	827	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 888		µg/kg dry	888	366	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	105			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	19.2			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405549	
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Sample Identification

C3

SB85918-09

Client Project #

211304.0000.0000

Matrix

Cork

Collection Date/Time

10-Mar-14 11:18

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 535		µg/kg dry	535	399	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	X
11104-28-2	Aroclor-1221	< 535		µg/kg dry	535	482	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 535		µg/kg dry	535	343	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 535		µg/kg dry	535	322	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	2,830		µg/kg dry	535	278	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 535		µg/kg dry	535	446	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	< 535		µg/kg dry	535	268	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 535		µg/kg dry	535	498	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 535		µg/kg dry	535	221	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	110			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	105			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	60			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	28.7	%					1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405549	
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Sample Identification

0-G-6"

SB85918-10

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

10-Mar-14 13:15

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 23.0		µg/kg dry	23.0	17.2	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	X
11104-28-2	Aroclor-1221	< 23.0		µg/kg dry	23.0	20.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.0		µg/kg dry	23.0	14.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.0		µg/kg dry	23.0	13.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	107		µg/kg dry	23.0	10.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	543		µg/kg dry	23.0	13.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.0		µg/kg dry	23.0	14.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.0		µg/kg dry	23.0	21.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.0		µg/kg dry	23.0	9.49	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	60			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	70			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	86.2			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405549	
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Sample Identification

0-G-12"

SB85918-11

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

10-Mar-14 13:20

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 22.6		µg/kg dry	22.6	16.9	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	X
11104-28-2	Aroclor-1221	< 22.6		µg/kg dry	22.6	20.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.6		µg/kg dry	22.6	14.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.6		µg/kg dry	22.6	13.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	88.1		µg/kg dry	22.6	9.91	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	419		µg/kg dry	22.6	13.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.6		µg/kg dry	22.6	14.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.6		µg/kg dry	22.6	21.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.6		µg/kg dry	22.6	9.31	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	50			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	60			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	88.1			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405549	
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Sample Identification

0-G-18"

SB85918-12

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

10-Mar-14 13:23

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 21.6		µg/kg dry	21.6	16.2	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	X
11104-28-2	Aroclor-1221	< 21.6		µg/kg dry	21.6	19.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.6		µg/kg dry	21.6	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.6		µg/kg dry	21.6	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.6		µg/kg dry	21.6	11.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	445		µg/kg dry	21.6	12.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.6		µg/kg dry	21.6	13.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.6		µg/kg dry	21.6	20.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.6		µg/kg dry	21.6	8.93	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	55			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	65			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	91.8			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	
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Sample Identification

0-G-24"

SB85918-13

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
10-Mar-14 13:27

Received
13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 21.9		µg/kg dry	21.9	16.3	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	X
11104-28-2	Aroclor-1221	< 21.9		µg/kg dry	21.9	19.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.9		µg/kg dry	21.9	14.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.9		µg/kg dry	21.9	13.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	409		µg/kg dry	21.9	11.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	554		µg/kg dry	21.9	18.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.9		µg/kg dry	21.9	13.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.9		µg/kg dry	21.9	20.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.9		µg/kg dry	21.9	9.02	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	60			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	65			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	90.5			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	
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Sample Identification**0-G-6"D**

SB85918-14

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

10-Mar-14 13:40

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 21.2		µg/kg dry	21.2	15.9	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	X
11104-28-2	Aroclor-1221	< 21.2		µg/kg dry	21.2	19.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.2		µg/kg dry	21.2	13.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.2		µg/kg dry	21.2	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.2		µg/kg dry	21.2	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.2		µg/kg dry	21.2	17.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.2		µg/kg dry	21.2	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.2		µg/kg dry	21.2	19.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.2		µg/kg dry	21.2	8.75	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	60			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	65			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	94.2			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	
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Sample Identification

0-G-12"D	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB85918-15	211304.0000.0000	Concrete	10-Mar-14 13:47	13-Mar-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 20.9		µg/kg dry	20.9	15.6	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	X
11104-28-2	Aroclor-1221	< 20.9		µg/kg dry	20.9	18.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.9		µg/kg dry	20.9	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.9		µg/kg dry	20.9	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.9		µg/kg dry	20.9	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	31.3		µg/kg dry	20.9	12.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.9		µg/kg dry	20.9	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.9		µg/kg dry	20.9	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.9		µg/kg dry	20.9	8.62	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	65			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	94.6	%					1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	
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Sample Identification

18-G-6"

SB85918-16

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
11-Mar-14 10:35

Received
13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 22.8		µg/kg dry	22.8	17.0	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	X
11104-28-2	Aroclor-1221	< 22.8		µg/kg dry	22.8	20.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.8		µg/kg dry	22.8	14.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.8		µg/kg dry	22.8	13.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.8		µg/kg dry	22.8	11.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	130		µg/kg dry	22.8	13.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.8		µg/kg dry	22.8	14.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.8		µg/kg dry	22.8	21.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.8		µg/kg dry	22.8	9.40	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	60			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	87.7			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	
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Sample Identification

18-G-12"

SB85918-17

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
11-Mar-14 10:21

Received
13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 21.3		µg/kg dry	21.3	15.9	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	X
11104-28-2	Aroclor-1221	< 21.3		µg/kg dry	21.3	19.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.3		µg/kg dry	21.3	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.3		µg/kg dry	21.3	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	36.2		µg/kg dry	21.3	9.34	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	17.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.3		µg/kg dry	21.3	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.77	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	60			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	70			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	93.4			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	
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Sample Identification**18-G-18"**

SB85918-18

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

11-Mar-14 10:18

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 22.7		µg/kg dry	22.7	16.9	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	X
11104-28-2	Aroclor-1221	< 22.7		µg/kg dry	22.7	20.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.7		µg/kg dry	22.7	14.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.7		µg/kg dry	22.7	13.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	42.0		µg/kg dry	22.7	9.96	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	53.3		µg/kg dry	22.7	13.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.7		µg/kg dry	22.7	14.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.7		µg/kg dry	22.7	21.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.7		µg/kg dry	22.7	9.35	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	75			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	87.7			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	
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Sample Identification

18-G-24"

SB85918-19

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

11-Mar-14 10:15

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 22.0		µg/kg dry	22.0	16.5	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	X
11104-28-2	Aroclor-1221	< 22.0		µg/kg dry	22.0	19.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.0		µg/kg dry	22.0	14.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.0		µg/kg dry	22.0	13.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	41.9		µg/kg dry	22.0	11.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.0		µg/kg dry	22.0	18.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.0		µg/kg dry	22.0	13.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.09	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	75			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	55			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	65			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	89.4			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	
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Sample Identification

18-G-6"D	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB85918-20	211304.0000.0000	Concrete	11-Mar-14 10:45	13-Mar-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 21.3		µg/kg dry	21.3	15.9	1	SW846 8082A	14-Mar-14	18-Mar-14	IMR	1405507	X
11104-28-2	Aroclor-1221	< 21.3		µg/kg dry	21.3	19.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.3		µg/kg dry	21.3	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.3		µg/kg dry	21.3	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.3		µg/kg dry	21.3	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	17.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.3		µg/kg dry	21.3	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.78	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	55			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	70			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	93.4	%					1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	
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Sample Identification

18-G-12"D
SB85918-21

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
11-Mar-14 10:40

Received
13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 23.4		µg/kg dry	23.4	17.5	1	SW846 8082A	14-Mar-14	17-Mar-14	BLM	1405508	X
11104-28-2	Aroclor-1221	< 23.4		µg/kg dry	23.4	21.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.4		µg/kg dry	23.4	15.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.4		µg/kg dry	23.4	14.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 23.4		µg/kg dry	23.4	12.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	41.0		µg/kg dry	23.4	13.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.4		µg/kg dry	23.4	14.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.4		µg/kg dry	23.4	21.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.4		µg/kg dry	23.4	9.67	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	85.1			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	
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Sample Identification

3/4-G-6"

SB85918-22

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

10-Mar-14 14:00

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 22.4		µg/kg dry	22.4	16.7	1	SW846 8082A	14-Mar-14	17-Mar-14	BLM	1405508	X
11104-28-2	Aroclor-1221	< 22.4		µg/kg dry	22.4	20.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.4		µg/kg dry	22.4	14.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.4		µg/kg dry	22.4	13.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	72.8		µg/kg dry	22.4	11.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	153		µg/kg dry	22.4	13.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	53.7		µg/kg dry	22.4	11.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.4		µg/kg dry	22.4	20.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.4		µg/kg dry	22.4	9.24	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	88.1			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	
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Sample Identification

3/4-G-12"

SB85918-23

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

10-Mar-14 14:05

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 21.8		µg/kg dry	21.8	16.3	1	SW846 8082A	14-Mar-14	17-Mar-14	BLM	1405508	X
11104-28-2	Aroclor-1221	< 21.8		µg/kg dry	21.8	19.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.8		µg/kg dry	21.8	14.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.8		µg/kg dry	21.8	13.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	61.0		µg/kg dry	21.8	11.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	91.5		µg/kg dry	21.8	12.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	26.1		µg/kg dry	21.8	10.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.8		µg/kg dry	21.8	20.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.8		µg/kg dry	21.8	8.99	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	89.5			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	
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Sample Identification

3/4-G-18"	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB85918-24	211304.0000.0000	Concrete	10-Mar-14 14:08	13-Mar-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 22.7		µg/kg dry	22.7	17.0	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	X
11104-28-2	Aroclor-1221	< 22.7		µg/kg dry	22.7	20.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.7		µg/kg dry	22.7	14.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.7		µg/kg dry	22.7	13.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	143		µg/kg dry	22.7	9.97	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	176		µg/kg dry	22.7	13.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	27.3		µg/kg dry	22.7	11.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.7		µg/kg dry	22.7	21.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.7		µg/kg dry	22.7	9.37	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	87.2	%					1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	
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Sample Identification

3/4-G-24"	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB85918-25	211304.0000.0000	Concrete	10-Mar-14 14:11	13-Mar-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 22.2		µg/kg dry	22.2	16.6	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	X
11104-28-2	Aroclor-1221	< 22.2		µg/kg dry	22.2	20.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.2		µg/kg dry	22.2	14.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.2		µg/kg dry	22.2	13.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	254	P	µg/kg dry	22.2	9.74	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	2,400		µg/kg dry	22.2	13.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	283		µg/kg dry	22.2	11.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.2		µg/kg dry	22.2	20.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.2		µg/kg dry	22.2	9.16	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	88.2	%					1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	
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Sample Identification

3/4-G-6"D

SB85918-26

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

10-Mar-14 14:17

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 21.1		µg/kg dry	21.1	15.8	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	X
11104-28-2	Aroclor-1221	< 21.1		µg/kg dry	21.1	19.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.1		µg/kg dry	21.1	13.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.1		µg/kg dry	21.1	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.1		µg/kg dry	21.1	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	< 21.1		µg/kg dry	21.1	12.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.1		µg/kg dry	21.1	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.1		µg/kg dry	21.1	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.1		µg/kg dry	21.1	8.72	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	94.1			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	
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Sample Identification

3/4-G-12"D

SB85918-27

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
10-Mar-14 14:30

Received
13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 21.5		µg/kg dry	21.5	16.0	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	X
11104-28-2	Aroclor-1221	< 21.5		µg/kg dry	21.5	19.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.5		µg/kg dry	21.5	13.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.5		µg/kg dry	21.5	12.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.5		µg/kg dry	21.5	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.5		µg/kg dry	21.5	17.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.5		µg/kg dry	21.5	13.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.5		µg/kg dry	21.5	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.5		µg/kg dry	21.5	8.85	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	70			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	65			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	60			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	70			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	92.6			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	
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Sample Identification

7/8-G-6"

SB85918-28

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

11-Mar-14 09:15

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 23.5		µg/kg dry	23.5	17.5	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	X
11104-28-2	Aroclor-1221	< 23.5		µg/kg dry	23.5	21.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.5		µg/kg dry	23.5	15.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.5		µg/kg dry	23.5	14.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	618		µg/kg dry	23.5	12.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	734		µg/kg dry	23.5	13.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	52.8		µg/kg dry	23.5	11.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.5		µg/kg dry	23.5	21.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.5		µg/kg dry	23.5	9.67	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	84.9			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	
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Sample Identification

7/8-G-12"	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB85918-29	211304.0000.0000	Concrete	11-Mar-14 09:13	13-Mar-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 23.0		µg/kg dry	23.0	17.2	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	X
11104-28-2	Aroclor-1221	< 23.0		µg/kg dry	23.0	20.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.0		µg/kg dry	23.0	14.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.0		µg/kg dry	23.0	13.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	773		µg/kg dry	23.0	11.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	1,810		µg/kg dry	23.0	13.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	183		µg/kg dry	23.0	11.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.0		µg/kg dry	23.0	21.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.0		µg/kg dry	23.0	9.47	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	86.9	%					1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	
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Sample Identification

7/8-G-18"	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB85918-30	211304.0000.0000	Concrete	11-Mar-14 09:10	13-Mar-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 22.6		µg/kg dry	22.6	16.9	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	X
11104-28-2	Aroclor-1221	< 22.6		µg/kg dry	22.6	20.3	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.6		µg/kg dry	22.6	14.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.6		µg/kg dry	22.6	13.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	420		µg/kg dry	22.6	9.91	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	234	P	µg/kg dry	22.6	18.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	24.8	P	µg/kg dry	22.6	14.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.6		µg/kg dry	22.6	21.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.6		µg/kg dry	22.6	9.31	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	86.3	%					1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	
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Sample Identification

7/8-G-24"	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
SB85918-31	211304.0000.0000	Concrete	11-Mar-14 09:07	13-Mar-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 23.4		µg/kg dry	23.4	17.5	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	X
11104-28-2	Aroclor-1221	< 23.4		µg/kg dry	23.4	21.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.4		µg/kg dry	23.4	15.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.4		µg/kg dry	23.4	14.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	532		µg/kg dry	23.4	12.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	1,130		µg/kg dry	23.4	13.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	395		µg/kg dry	23.4	11.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.4		µg/kg dry	23.4	21.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.4		µg/kg dry	23.4	9.67	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	85.0	%					1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405550	
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Sample Identification

7/8-G-6"D

SB85918-32

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

11-Mar-14 09:25

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 20.8		µg/kg dry	20.8	15.5	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	X
11104-28-2	Aroclor-1221	< 20.8		µg/kg dry	20.8	18.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.8		µg/kg dry	20.8	13.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.8		µg/kg dry	20.8	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	27.0		µg/kg dry	20.8	10.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.8		µg/kg dry	20.8	17.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.8		µg/kg dry	20.8	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.8		µg/kg dry	20.8	19.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.8		µg/kg dry	20.8	8.56	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	95.7			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	
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Sample Identification

7/8-G-12"D

SB85918-33

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

11-Mar-14 09:20

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 20.9		µg/kg dry	20.9	15.6	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	X
11104-28-2	Aroclor-1221	< 20.9		µg/kg dry	20.9	18.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.9		µg/kg dry	20.9	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.9		µg/kg dry	20.9	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	95.1		µg/kg dry	20.9	9.18	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.9		µg/kg dry	20.9	17.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.9		µg/kg dry	20.9	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.9		µg/kg dry	20.9	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.9		µg/kg dry	20.9	8.63	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	94.8			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	
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Sample Identification

13/14-G-6"
SB85918-34

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
11-Mar-14 13:14

Received
13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 22.9		µg/kg dry	22.9	17.1	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	X
11104-28-2	Aroclor-1221	< 22.9		µg/kg dry	22.9	20.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.9		µg/kg dry	22.9	14.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.9		µg/kg dry	22.9	13.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	667		µg/kg dry	22.9	11.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	1,000		µg/kg dry	22.9	13.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	131		µg/kg dry	22.9	11.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.9		µg/kg dry	22.9	21.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.9		µg/kg dry	22.9	9.47	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	85.5			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	
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Sample Identification

13/14-G-12"

SB85918-35

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

11-Mar-14 13:11

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 22.5		µg/kg dry	22.5	16.8	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	X
11104-28-2	Aroclor-1221	< 22.5		µg/kg dry	22.5	20.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.5		µg/kg dry	22.5	14.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.5		µg/kg dry	22.5	13.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	251		µg/kg dry	22.5	11.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	547		µg/kg dry	22.5	13.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	96.5		µg/kg dry	22.5	11.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.5		µg/kg dry	22.5	20.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.5		µg/kg dry	22.5	9.26	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	85.4			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	
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Sample Identification

13/14-G-18"

SB85918-36

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

11-Mar-14 13:08

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 23.2		µg/kg dry	23.2	17.3	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	X
11104-28-2	Aroclor-1221	< 23.2		µg/kg dry	23.2	20.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.2		µg/kg dry	23.2	14.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.2		µg/kg dry	23.2	13.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	380		µg/kg dry	23.2	12.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	872		µg/kg dry	23.2	13.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	115		µg/kg dry	23.2	11.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.2		µg/kg dry	23.2	21.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.2		µg/kg dry	23.2	9.55	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	85.9			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	
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Sample Identification

13/14-G-24"

SB85918-37

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

11-Mar-14 13:05

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 23.1		µg/kg dry	23.1	17.3	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	X
11104-28-2	Aroclor-1221	< 23.1		µg/kg dry	23.1	20.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.1		µg/kg dry	23.1	14.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.1		µg/kg dry	23.1	13.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	1,600		µg/kg dry	23.1	12.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	2,330		µg/kg dry	23.1	13.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	201		µg/kg dry	23.1	14.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.1		µg/kg dry	23.1	21.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.1		µg/kg dry	23.1	9.53	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	84.8			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	
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Sample Identification

13/14-G-6"D

SB85918-38

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

11-Mar-14 13:27

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 21.0		µg/kg dry	21.0	15.7	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	X
11104-28-2	Aroclor-1221	< 21.0		µg/kg dry	21.0	18.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.0		µg/kg dry	21.0	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.0		µg/kg dry	21.0	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	74.5		µg/kg dry	21.0	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	91.3		µg/kg dry	21.0	12.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.0		µg/kg dry	21.0	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.0		µg/kg dry	21.0	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.0		µg/kg dry	21.0	8.66	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	92.9			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	
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Sample Identification

13/14-G-12"D

SB85918-39

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
11-Mar-14 13:20

Received
13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 22.0		µg/kg dry	22.0	16.4	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	X
11104-28-2	Aroclor-1221	< 22.0		µg/kg dry	22.0	19.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.0		µg/kg dry	22.0	14.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.0		µg/kg dry	22.0	13.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	106		µg/kg dry	22.0	11.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	157		µg/kg dry	22.0	12.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.0		µg/kg dry	22.0	13.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.08	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	88.9			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	
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Sample Identification

17/18-G-6"
SB85918-40

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
11-Mar-14 11:02

Received
13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 23.1		µg/kg dry	23.1	17.3	1	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405508	X
11104-28-2	Aroclor-1221	< 23.1		µg/kg dry	23.1	20.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.1		µg/kg dry	23.1	14.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.1		µg/kg dry	23.1	13.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	347		µg/kg dry	23.1	12.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	1,090		µg/kg dry	23.1	13.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	147		µg/kg dry	23.1	11.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.1		µg/kg dry	23.1	21.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.1		µg/kg dry	23.1	9.55	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	85.5			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	
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Sample Identification

17/18-G-12"

SB85918-41

Client Project #
211304.0000.0000

Matrix
Concrete

Collection Date/Time
11-Mar-14 10:58

Received
13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GC

Polychlorinated Biphenyls

GS1

Prepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 216	D	µg/kg dry	216	162	10	SW846 8082A	14-Mar-14	18-Mar-14	BLM	1405509	X
11104-28-2	Aroclor-1221	< 216	D	µg/kg dry	216	195	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 216	D	µg/kg dry	216	139	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 216	D	µg/kg dry	216	130	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	6,640	D	µg/kg dry	216	94.9	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	13,400	D	µg/kg dry	216	127	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	973	D	µg/kg dry	216	108	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 216	D	µg/kg dry	216	201	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 216	D	µg/kg dry	216	89.2	10	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	150			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	150			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	90.4			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	
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Sample Identification

17/18-G-18"

SB85918-42

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

11-Mar-14 10:54

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 22.0		µg/kg dry	22.0	16.4	1	SW846 8082A	14-Mar-14	17-Mar-14	BLM	1405509	X
11104-28-2	Aroclor-1221	< 22.0		µg/kg dry	22.0	19.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.0		µg/kg dry	22.0	14.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.0		µg/kg dry	22.0	13.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	189		µg/kg dry	22.0	11.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	195		µg/kg dry	22.0	12.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	< 22.0		µg/kg dry	22.0	11.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.0		µg/kg dry	22.0	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.0		µg/kg dry	22.0	9.07	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	88.3			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	
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Sample Identification

17/18-G-24"

SB85918-43

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

11-Mar-14 10:50

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 22.3		µg/kg dry	22.3	16.6	1	SW846 8082A	14-Mar-14	17-Mar-14	BLM	1405509	X
11104-28-2	Aroclor-1221	< 22.3		µg/kg dry	22.3	20.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.3		µg/kg dry	22.3	14.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.3		µg/kg dry	22.3	13.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	186		µg/kg dry	22.3	11.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	462		µg/kg dry	22.3	13.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	45.7		µg/kg dry	22.3	11.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.3		µg/kg dry	22.3	20.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.3		µg/kg dry	22.3	9.19	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	88.0			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	
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Sample Identification

17/18-G-6"D

SB85918-44

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

11-Mar-14 11:06

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 21.0		µg/kg dry	21.0	15.7	1	SW846 8082A	14-Mar-14	17-Mar-14	BLM	1405509	X
11104-28-2	Aroclor-1221	< 21.0		µg/kg dry	21.0	19.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.0		µg/kg dry	21.0	13.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.0		µg/kg dry	21.0	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	56.8		µg/kg dry	21.0	9.23	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.0		µg/kg dry	21.0	17.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.0		µg/kg dry	21.0	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.0		µg/kg dry	21.0	19.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.0		µg/kg dry	21.0	8.68	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	94.1			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	
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Sample Identification

17/18-G-12"D

SB85918-45

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

11-Mar-14 11:08

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 21.3		µg/kg dry	21.3	15.9	1	SW846 8082A	14-Mar-14	17-Mar-14	BLM	1405509	X
11104-28-2	Aroclor-1221	< 21.3		µg/kg dry	21.3	19.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.3		µg/kg dry	21.3	13.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.3		µg/kg dry	21.3	12.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	46.9		µg/kg dry	21.3	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.3		µg/kg dry	21.3	17.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.3		µg/kg dry	21.3	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.3		µg/kg dry	21.3	19.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.3		µg/kg dry	21.3	8.79	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	93.3			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	
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Sample Identification

7/8-F-0"

SB85918-46

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

11-Mar-14 09:50

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 23.8		µg/kg dry	23.8	17.7	1	SW846 8082A	14-Mar-14	17-Mar-14	BLM	1405509	X
11104-28-2	Aroclor-1221	< 23.8		µg/kg dry	23.8	21.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.8		µg/kg dry	23.8	15.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.8		µg/kg dry	23.8	14.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	39.2		µg/kg dry	23.8	10.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.8		µg/kg dry	23.8	19.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.8		µg/kg dry	23.8	14.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.8		µg/kg dry	23.8	22.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.8		µg/kg dry	23.8	9.80	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	84.2			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	
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Sample Identification

7/8-F-3"

SB85918-47

Client Project #

211304.0000.0000

Matrix

Concrete

Collection Date/Time

11-Mar-14 09:47

Received

13-Mar-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3540C

12674-11-2	Aroclor-1016	< 22.1		µg/kg dry	22.1	16.5	1	SW846 8082A	14-Mar-14	17-Mar-14	BLM	1405509	X
11104-28-2	Aroclor-1221	< 22.1		µg/kg dry	22.1	19.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.1		µg/kg dry	22.1	14.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.1		µg/kg dry	22.1	13.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	76.2		µg/kg dry	22.1	11.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	69.6	P	µg/kg dry	22.1	18.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.1		µg/kg dry	22.1	13.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.1		µg/kg dry	22.1	20.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.1		µg/kg dry	22.1	9.11	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

General Chemistry Parameters

% Solids	88.2			%			1	SM2540 G Mod.	14-Mar-14	14-Mar-14	DT	1405551	
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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1405507 - SW846 3540C										
Blank (1405507-BLK1)					Prepared: 14-Mar-14 Analyzed: 18-Mar-14					
Aroclor-1016	< 19.3		µg/kg wet	19.3						
Aroclor-1016 [2C]	< 19.3		µg/kg wet	19.3						
Aroclor-1221	< 19.3		µg/kg wet	19.3						
Aroclor-1221 [2C]	< 19.3		µg/kg wet	19.3						
Aroclor-1232	< 19.3		µg/kg wet	19.3						
Aroclor-1232 [2C]	< 19.3		µg/kg wet	19.3						
Aroclor-1242	< 19.3		µg/kg wet	19.3						
Aroclor-1242 [2C]	< 19.3		µg/kg wet	19.3						
Aroclor-1248	< 19.3		µg/kg wet	19.3						
Aroclor-1248 [2C]	< 19.3		µg/kg wet	19.3						
Aroclor-1254	< 19.3		µg/kg wet	19.3						
Aroclor-1254 [2C]	< 19.3		µg/kg wet	19.3						
Aroclor-1260	< 19.3		µg/kg wet	19.3						
Aroclor-1260 [2C]	< 19.3		µg/kg wet	19.3						
Aroclor-1262	< 19.3		µg/kg wet	19.3						
Aroclor-1262 [2C]	< 19.3		µg/kg wet	19.3						
Aroclor-1268	< 19.3		µg/kg wet	19.3						
Aroclor-1268 [2C]	< 19.3		µg/kg wet	19.3						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	18.4		µg/kg wet		19.3		95	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	19.3		µg/kg wet		19.3		100	30-150		
Surrogate: Decachlorobiphenyl (Sr)	15.5		µg/kg wet		19.3		80	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	15.5		µg/kg wet		19.3		80	30-150		
LCS (1405507-BS1)					Prepared: 14-Mar-14 Analyzed: 18-Mar-14					
Aroclor-1016	231		µg/kg wet	19.7	246		94	40-140		
Aroclor-1016 [2C]	243		µg/kg wet	19.7	246		99	40-140		
Aroclor-1260	224		µg/kg wet	19.7	246		91	40-140		
Aroclor-1260 [2C]	223		µg/kg wet	19.7	246		91	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	20.6		µg/kg wet		19.7		105	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	20.6		µg/kg wet		19.7		105	30-150		
Surrogate: Decachlorobiphenyl (Sr)	17.7		µg/kg wet		19.7		90	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	16.7		µg/kg wet		19.7		85	30-150		
LCS Dup (1405507-BSD1)					Prepared: 14-Mar-14 Analyzed: 18-Mar-14					
Aroclor-1016	232		µg/kg wet	19.8	247		94	40-140	0.4	30
Aroclor-1016 [2C]	243		µg/kg wet	19.8	247		98	40-140	0.4	30
Aroclor-1260	227		µg/kg wet	19.8	247		92	40-140	0.4	30
Aroclor-1260 [2C]	213		µg/kg wet	19.8	247		86	40-140	5	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	20.8		µg/kg wet		19.8		105	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	20.8		µg/kg wet		19.8		105	30-150		
Surrogate: Decachlorobiphenyl (Sr)	17.8		µg/kg wet		19.8		90	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	18.8		µg/kg wet		19.8		95	30-150		
Duplicate (1405507-DUP1)					Source: SB85918-18 Prepared: 14-Mar-14 Analyzed: 18-Mar-14					
Aroclor-1016	< 22.6		µg/kg dry	22.6		BRL				30
Aroclor-1016 [2C]	< 22.6		µg/kg dry	22.6		BRL				30
Aroclor-1221	< 22.6		µg/kg dry	22.6		BRL				30
Aroclor-1221 [2C]	< 22.6		µg/kg dry	22.6		BRL				30
Aroclor-1232	< 22.6		µg/kg dry	22.6		BRL				30
Aroclor-1232 [2C]	< 22.6		µg/kg dry	22.6		BRL				30
Aroclor-1242	< 22.6		µg/kg dry	22.6		BRL				30
Aroclor-1242 [2C]	< 22.6		µg/kg dry	22.6		BRL				30
Aroclor-1248	36.2		µg/kg dry	22.6		36.3			0.3	30

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1405507 - SW846 3540C										
Duplicate (1405507-DUP1)										
				Source: SB85918-18				Prepared: 14-Mar-14 Analyzed: 18-Mar-14		
Aroclor-1248 [2C]	40.7		µg/kg dry	22.6		42.0			3	30
Aroclor-1254	45.2		µg/kg dry	22.6		51.0			12	30
Aroclor-1254 [2C]	49.8		µg/kg dry	22.6		53.3			7	30
Aroclor-1260	< 22.6		µg/kg dry	22.6		BRL				30
Aroclor-1260 [2C]	< 22.6		µg/kg dry	22.6		BRL				30
Aroclor-1262	< 22.6		µg/kg dry	22.6		BRL				30
Aroclor-1262 [2C]	< 22.6		µg/kg dry	22.6		BRL				30
Aroclor-1268	< 22.6		µg/kg dry	22.6		BRL				30
Aroclor-1268 [2C]	< 22.6		µg/kg dry	22.6		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	21.5		µg/kg dry		22.6		95	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	21.5		µg/kg dry		22.6		95	30-150		
Surrogate: Decachlorobiphenyl (Sr)	20.4		µg/kg dry		22.6		90	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	21.5		µg/kg dry		22.6		95	30-150		
Matrix Spike (1405507-MS1)										
				Source: SB85918-16				Prepared: 14-Mar-14 Analyzed: 18-Mar-14		
Aroclor-1016	304		µg/kg dry	22.7	283	BRL	107	40-140		
Aroclor-1016 [2C]	315		µg/kg dry	22.7	283	BRL	111	40-140		
Aroclor-1260	352		µg/kg dry	22.7	283	BRL	124	40-140		
Aroclor-1260 [2C]	340		µg/kg dry	22.7	283	BRL	120	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	21.5		µg/kg dry		22.7		95	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	22.7		µg/kg dry		22.7		100	30-150		
Surrogate: Decachlorobiphenyl (Sr)	20.4		µg/kg dry		22.7		90	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	21.5		µg/kg dry		22.7		95	30-150		
Matrix Spike Dup (1405507-MSD1)										
				Source: SB85918-16				Prepared: 14-Mar-14 Analyzed: 18-Mar-14		
Aroclor-1016	298		µg/kg dry	22.7	283	BRL	105	40-140	2	30
Aroclor-1016 [2C]	331		µg/kg dry	22.7	283	BRL	117	40-140	5	30
Aroclor-1260	361		µg/kg dry	22.7	283	BRL	127	40-140	2	30
Aroclor-1260 [2C]	346		µg/kg dry	22.7	283	BRL	122	40-140	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	22.7		µg/kg dry		22.7		100	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	22.7		µg/kg dry		22.7		100	30-150		
Surrogate: Decachlorobiphenyl (Sr)	20.4		µg/kg dry		22.7		90	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	22.7		µg/kg dry		22.7		100	30-150		
Batch 1405508 - SW846 3540C										
Blank (1405508-BLK1)										
								Prepared: 14-Mar-14 Analyzed: 17-Mar-14		
Aroclor-1016	< 19.3		µg/kg wet	19.3						
Aroclor-1016 [2C]	< 19.3		µg/kg wet	19.3						
Aroclor-1221	< 19.3		µg/kg wet	19.3						
Aroclor-1221 [2C]	< 19.3		µg/kg wet	19.3						
Aroclor-1232	< 19.3		µg/kg wet	19.3						
Aroclor-1232 [2C]	< 19.3		µg/kg wet	19.3						
Aroclor-1242	< 19.3		µg/kg wet	19.3						
Aroclor-1242 [2C]	< 19.3		µg/kg wet	19.3						
Aroclor-1248	< 19.3		µg/kg wet	19.3						
Aroclor-1248 [2C]	< 19.3		µg/kg wet	19.3						
Aroclor-1254	< 19.3		µg/kg wet	19.3						
Aroclor-1254 [2C]	< 19.3		µg/kg wet	19.3						
Aroclor-1260	< 19.3		µg/kg wet	19.3						
Aroclor-1260 [2C]	< 19.3		µg/kg wet	19.3						
Aroclor-1262	< 19.3		µg/kg wet	19.3						
Aroclor-1262 [2C]	< 19.3		µg/kg wet	19.3						
Aroclor-1268	< 19.3		µg/kg wet	19.3						

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1405508 - SW846 3540C										
Blank (1405508-BLK1)					Prepared: 14-Mar-14 Analyzed: 17-Mar-14					
Aroclor-1268 [2C]	< 19.3		µg/kg wet	19.3						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	25.1		µg/kg wet		19.3		130	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	24.1		µg/kg wet		19.3		125	30-150		
Surrogate: Decachlorobiphenyl (Sr)	19.3		µg/kg wet		19.3		100	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	22.2		µg/kg wet		19.3		115	30-150		
LCS (1405508-BS1)					Prepared: 14-Mar-14 Analyzed: 17-Mar-14					
Aroclor-1016	163		µg/kg wet	19.8	248		66	40-140		
Aroclor-1016 [2C]	147		µg/kg wet	19.8	248		59	40-140		
Aroclor-1260	135		µg/kg wet	19.8	248		54	40-140		
Aroclor-1260 [2C]	175		µg/kg wet	19.8	248		70	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.9		µg/kg wet		19.8		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	15.9		µg/kg wet		19.8		80	30-150		
Surrogate: Decachlorobiphenyl (Sr)	13.9		µg/kg wet		19.8		70	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	15.9		µg/kg wet		19.8		80	30-150		
LCS Dup (1405508-BSD1)					Prepared: 14-Mar-14 Analyzed: 17-Mar-14					
Aroclor-1016	156		µg/kg wet	19.4	242		64	40-140	2	30
Aroclor-1016 [2C]	153		µg/kg wet	19.4	242		63	40-140	7	30
Aroclor-1260	128		µg/kg wet	19.4	242		53	40-140	3	30
Aroclor-1260 [2C]	169		µg/kg wet	19.4	242		70	40-140	0.6	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.5		µg/kg wet		19.4		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	15.5		µg/kg wet		19.4		80	30-150		
Surrogate: Decachlorobiphenyl (Sr)	13.6		µg/kg wet		19.4		70	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	15.5		µg/kg wet		19.4		80	30-150		
Duplicate (1405508-DUP1)					Source: SB85918-34 Prepared: 14-Mar-14 Analyzed: 17-Mar-14					
Aroclor-1016	< 22.7		µg/kg dry	22.7		BRL				30
Aroclor-1016 [2C]	< 22.7		µg/kg dry	22.7		BRL				30
Aroclor-1221	< 22.7		µg/kg dry	22.7		BRL				30
Aroclor-1221 [2C]	< 22.7		µg/kg dry	22.7		BRL				30
Aroclor-1232	< 22.7		µg/kg dry	22.7		BRL				30
Aroclor-1232 [2C]	< 22.7		µg/kg dry	22.7		BRL				30
Aroclor-1242	< 22.7		µg/kg dry	22.7		BRL				30
Aroclor-1242 [2C]	< 22.7		µg/kg dry	22.7		BRL				30
Aroclor-1248	658		µg/kg dry	22.7		667			1	30
Aroclor-1248 [2C]	576		µg/kg dry	22.7		535			8	30
Aroclor-1254	845		µg/kg dry	22.7		804			5	30
Aroclor-1254 [2C]	1190		µg/kg dry	22.7		1000			17	30
Aroclor-1260	104		µg/kg dry	22.7		96.4			8	30
Aroclor-1260 [2C]	117		µg/kg dry	22.7		131			11	30
Aroclor-1262	< 22.7		µg/kg dry	22.7		BRL				30
Aroclor-1262 [2C]	< 22.7		µg/kg dry	22.7		BRL				30
Aroclor-1268	< 22.7		µg/kg dry	22.7		BRL				30
Aroclor-1268 [2C]	< 22.7		µg/kg dry	22.7		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	19.3		µg/kg dry		22.7		85	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	19.3		µg/kg dry		22.7		85	30-150		
Surrogate: Decachlorobiphenyl (Sr)	17.0		µg/kg dry		22.7		75	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	19.3		µg/kg dry		22.7		85	30-150		
Matrix Spike (1405508-MS1)					Source: SB85918-32 Prepared: 14-Mar-14 Analyzed: 17-Mar-14					
Aroclor-1016	83.1	QM7	µg/kg dry	20.8	260	BRL	32	40-140		
Aroclor-1016 [2C]	83.1	QM7	µg/kg dry	20.8	260	BRL	32	40-140		
Aroclor-1260	83.1	QM7	µg/kg dry	20.8	260	BRL	32	40-140		

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1405508 - SW846 3540C										
Matrix Spike (1405508-MS1)			Source: SB85918-32		Prepared: 14-Mar-14 Analyzed: 17-Mar-14					
Aroclor-1260 [2C]	97.7	QM7	µg/kg dry	20.8	260	BRL	38	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	8.31		µg/kg dry		20.8		40	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	9.35		µg/kg dry		20.8		45	30-150		
Surrogate: Decachlorobiphenyl (Sr)	8.31		µg/kg dry		20.8		40	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	9.35		µg/kg dry		20.8		45	30-150		
Matrix Spike Dup (1405508-MSD1)			Source: SB85918-32		Prepared: 14-Mar-14 Analyzed: 17-Mar-14					
Aroclor-1016	189	QR9	µg/kg dry	20.8	261	BRL	72	40-140	77	30
Aroclor-1016 [2C]	178	QR9	µg/kg dry	20.8	261	BRL	68	40-140	73	30
Aroclor-1260	160	QR9	µg/kg dry	20.8	261	BRL	62	40-140	63	30
Aroclor-1260 [2C]	184	QR9	µg/kg dry	20.8	261	BRL	71	40-140	61	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	17.7		µg/kg dry		20.8		85	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	17.7		µg/kg dry		20.8		85	30-150		
Surrogate: Decachlorobiphenyl (Sr)	16.7		µg/kg dry		20.8		80	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	18.8		µg/kg dry		20.8		90	30-150		
Batch 1405509 - SW846 3540C										
Blank (1405509-BLK1)			Prepared: 14-Mar-14 Analyzed: 17-Mar-14							
Aroclor-1016	< 19.1		µg/kg wet	19.1						
Aroclor-1016 [2C]	< 19.1		µg/kg wet	19.1						
Aroclor-1221	< 19.1		µg/kg wet	19.1						
Aroclor-1221 [2C]	< 19.1		µg/kg wet	19.1						
Aroclor-1232	< 19.1		µg/kg wet	19.1						
Aroclor-1232 [2C]	< 19.1		µg/kg wet	19.1						
Aroclor-1242	< 19.1		µg/kg wet	19.1						
Aroclor-1242 [2C]	< 19.1		µg/kg wet	19.1						
Aroclor-1248	< 19.1		µg/kg wet	19.1						
Aroclor-1248 [2C]	< 19.1		µg/kg wet	19.1						
Aroclor-1254	< 19.1		µg/kg wet	19.1						
Aroclor-1254 [2C]	< 19.1		µg/kg wet	19.1						
Aroclor-1260	< 19.1		µg/kg wet	19.1						
Aroclor-1260 [2C]	< 19.1		µg/kg wet	19.1						
Aroclor-1262	< 19.1		µg/kg wet	19.1						
Aroclor-1262 [2C]	< 19.1		µg/kg wet	19.1						
Aroclor-1268	< 19.1		µg/kg wet	19.1						
Aroclor-1268 [2C]	< 19.1		µg/kg wet	19.1						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	19.1		µg/kg wet		19.1		100	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	18.1		µg/kg wet		19.1		95	30-150		
Surrogate: Decachlorobiphenyl (Sr)	15.3		µg/kg wet		19.1		80	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	17.2		µg/kg wet		19.1		90	30-150		
LCS (1405509-BS1)			Prepared: 14-Mar-14 Analyzed: 17-Mar-14							
Aroclor-1016	175		µg/kg wet	19.4	242		72	40-140		
Aroclor-1016 [2C]	150		µg/kg wet	19.4	242		62	40-140		
Aroclor-1260	155		µg/kg wet	19.4	242		64	40-140		
Aroclor-1260 [2C]	164		µg/kg wet	19.4	242		68	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.5		µg/kg wet		19.4		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	14.5		µg/kg wet		19.4		75	30-150		
Surrogate: Decachlorobiphenyl (Sr)	14.5		µg/kg wet		19.4		75	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	13.5		µg/kg wet		19.4		70	30-150		
LCS Dup (1405509-BSD1)			Prepared: 14-Mar-14 Analyzed: 17-Mar-14							
Aroclor-1016	177		µg/kg wet	19.3	241		73	40-140	1	30
Aroclor-1016 [2C]	145		µg/kg wet	19.3	241		60	40-140	3	30

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1405509 - SW846 3540C										
<u>LCS Dup (1405509-BSD1)</u>					<u>Prepared: 14-Mar-14 Analyzed: 17-Mar-14</u>					
Aroclor-1260	150		µg/kg wet	19.3	241		62	40-140	3	30
Aroclor-1260 [2C]	176		µg/kg wet	19.3	241		73	40-140	7	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	14.5		µg/kg wet		19.3		75	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	14.5		µg/kg wet		19.3		75	30-150		
Surrogate: Decachlorobiphenyl (Sr)	14.5		µg/kg wet		19.3		75	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	15.4		µg/kg wet		19.3		80	30-150		

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General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1405550 - General Preparation										
<u>Duplicate (1405550-DUP1)</u>				<u>Source: SB85918-12</u>		<u>Prepared & Analyzed: 14-Mar-14</u>				
% Solids	91.1		%			91.8			0.7	20
Batch 1405551 - General Preparation										
<u>Duplicate (1405551-DUP1)</u>				<u>Source: SB85918-32</u>		<u>Prepared & Analyzed: 14-Mar-14</u>				
% Solids	95.4		%			95.7			0.3	20

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Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
P	Difference between the two GC columns is greater than 40%.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR9	RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.
S01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

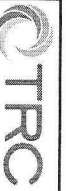
Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
June O'Connor
Nicole Leja



21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

CHAIN OF CUSTODY

Edition: September 2007
Supersede Previous Edition

SB 85918

PROJECT NUMBER

211304.0000.0000

PROJECT NAME

MDC - Reservoir #6 (Basin 1)
West Hartford, CT

SIGNATURE

INSPECTOR
G.Kaczynski/M.Kostruba

PARAMETERS

EPA 8082 (3540C)

CONTAINERS

of Amber Glass

of Clear Glass

Matrix
(X1=concrete, X2=cork,
X3=caulk)

Preservative

LAB ID #
TURNAROUND TIME

X 3 day - RUSH TAT

Rush TAT Date Needed:

NOTES

Lab ID:	SAMPLE ID:	DATE	TIM E	COMP	GRAB	SAMPLE LOCATION	EPA 8082 (3540C)	# of Amber Glass	# of Clear Glass	Matrix (X1=concrete, X2=cork, X3=caulk)	Preservative	NOTES
01	EJ1	3/10/14	1055	X	X	North wall	X	1		X3	----	Light grey expansion joint caulk
02	EJ2	3/10/14	1059	X	X	Floor - between columns 0/1	X			X3	----	Light grey expansion joint caulk
03	EJ3	3/10/14	1103	X	X	Floor - between columns 16/17	X			X3	----	Light grey expansion joint caulk
04	T1	3/10/14	1045	X	X	East wall - between columns 7&8	X			X3	----	Tar/sealant material
05	T2	3/10/14	1055	X	X	Floor - between columns 6/7 & F/G	X			X3	----	Tar/sealant material
06	T3	3/10/14	1050	X	X	Floor - column I between 10/11	X			X3	----	Tar/sealant material
07	C1	3/10/14	1110	X	X	Floor - between columns 0/1 (under expansion joint caulk)	X			X2	----	Cork material in expansion joint
08	C2	3/10/14	1115	X	X	Column 6 - 4' high	X			X2	----	Cork material in expansion joint
09	C3	3/10/14	1118	X	X	Column 11 - 1' high	X			X2	----	Cork material in expansion joint

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Date: 3/13/14

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Date: 3/13

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Gregory Kaczynski

Remarks: Standard QA/QC Reporting Level

Report to: Erik Plimpton (Eplimpton@TRCsolutions.com) (860) 298-9692

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P0# C211304

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CHAIN OF CUSTODY

Edition: September 2007
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LAB ID #.

PROJECT NUMBER

PROJECT NAME

211304.0000.0000

MDC - Reservoir #6 (Basin 1)
West Hartford, CT

PARAMETERS

CONTAINERS

TURNAROUND TIME

X 3 day -RUSH TAT

Rush TAT

Date Needed:

SIGNATURE

INSPECTOR

G.Kaczynski/M.Kostrubka

Lab ID:

SAMPLE ID:

DATE

TIM E

TYP E

COMP GRAB

SAMPLE LOCATION

EPA 8082 (3540C)

of Amber Glass

of Clear Glass

Matrix
(X1=concrete, X2=cork,
X3=caulk)

Preservative

NOTES

10	0-G-6"	3/10/14	1315	X	North wall - adjacent to caulk	X	1	X1	---	
11	0-G-12"	3/10/14	1320	X	North wall - adjacent to caulk	X		X1	---	
12	0-G-18"	3/10/14	1323	X	North wall - adjacent to caulk	X		X1	---	
13	0-G-24"	3/10/14	1327	X	North wall - adjacent to caulk	X		X1	---	
14	0-G-6"D	3/10/14	1340	X	North wall - adjacent to caulk (3-3.5" deep)	X		X1	---	
15	0-G-12"D	3/10/14	1347	X	North wall - adjacent to caulk (1-1.5" deep)	X		X1	---	
16	18-G-6"	3/11/14	1035	X	South wall - adjacent to caulk	X	1	X1	---	
17	18-G-12"	3/11/14	1021	X	South wall - adjacent to caulk	X	1	X1	---	

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Time:

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Gregory Kaczynski

2:30

Remarks: Standard QA/QC Reporting Level

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FAX (860) 298-6380

CHAIN OF CUSTODY

LAB ID #.

PROJECT NUMBER

PROJECT NAME

211304.0000.0000

MDC - Reservoir #6 (Basin 1)
West Hartford, CT

PARAMETERS

CONTAINERS

TURNAROUND TIME

SIGNATURE

INSPECTOR

EPA 8082 (3540C)

of Amber Glass

of Clear Glass

Matrix
(X1=concrete, X2=cork,
X3=caulk)

Preservative

NOTES

X

3 day -RUSH TAT

Rush TAT

Date Needed:

G.Kaczynski/M.Kostrubka

Lab ID:

SAMPLE ID:

DATE

TYP
E

COMP
GRAB

SAMPLE LOCATION

of Amber Glass

of Clear Glass

Matrix
(X1=concrete, X2=cork,
X3=caulk)

Preservative

NOTES

X

3 day -RUSH TAT

Rush TAT

Date Needed:

18

18-G-18"

3/1/14

X

South wall - adjacent to
caulk

X

1

X1

X

3 day -RUSH TAT

Rush TAT

Date Needed:

19

18-G-24"

3/1/14

X

South wall - adjacent to
caulk

X

1

X1

X

3 day -RUSH TAT

Rush TAT

Date Needed:

20

18-G-6"D

3/1/14

X

South wall - adjacent to
caulk (3-3.5" deep)

X

1

X1

X

3 day -RUSH TAT

Rush TAT

Date Needed:

21

18-G-12"D

3/1/14

X

South wall - adjacent to
caulk (1-1.5" deep)

X

1

X1

X

3 day -RUSH TAT

Rush TAT

Date Needed:

22

3/4-G-6"

3/10/14

X

Floor - adjacent to caulk

X

1

X1

X

3 day -RUSH TAT

Rush TAT

Date Needed:

23

3/4-G-12"

3/10/14

X

Floor - adjacent to caulk

X

1

X1

X

3 day -RUSH TAT

Rush TAT

Date Needed:

24

3/4-G-18"

3/10/14

X

Floor - adjacent to caulk

X

1

X1

X

3 day -RUSH TAT

Rush TAT

Date Needed:

25

3/4-G-24"

3/10/14

X

Floor - adjacent to caulk

X

1

X1

X

3 day -RUSH TAT

Rush TAT

Date Needed:

26

3/4-G-6"D

3/10/14

X

Floor - adjacent to caulk

X

1

X1

X

3 day -RUSH TAT

Rush TAT

Date Needed:

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Date:

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Time:

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Time:

(Printed)

Gregory Kaczynski

Time:

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(Printed)

Time:

(Printed)

Remarks: Standard QA/QC Reporting Level
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P0# C211304

Condition upon Receipt:

Page 3 of 8

3/13/14

3/10/13 RCP

241 3113

SB 85918



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WINDSOR, CONNECTICUT 06095

TELEPHONE (860) 298-9692

FAX (860) 298-6380

CHAIN OF CUSTODY

Edition: September 2007
Supersede Previous Edition

LAB ID #.

PROJECT NUMBER

PROJECT NAME

211304.0000.0000

MDC - Reservoir #6 (Basin 1)
West Hartford, CT

PARAMETERS

CONTAINERS

TURNAROUND TIME

3 day - RUSH TAT

Rush TAT

Date Needed:

SIGNATURE

INSPECTOR

G. Kaczynski/M. Kostruba

NOTES

Lab ID:	SAMPLE ID:	DATE	TIME	TYP E	COMP GRAB	SAMPLE LOCATION	EPA 8082 (3540C)	# of Amber Glass	# of Clear Glass	Matrix (X1=concrete, X2=cork, X3=caulk)	Preservative	NOTES
27	3/4-G-12"D	3/10/14	1430	X	X	Floor - adjacent to caulk	X	1		X1	---	
28	7/8-G-6"	3/11/14	0915	X	X	Floor - adjacent to caulk	X			X1	---	
29	7/8-G-12"	3/11/14	0913	X	X	Floor - adjacent to caulk	X			X1	---	
30	7/8-G-18"	3/11/14	0910	X	X	Floor - adjacent to caulk	X			X1	---	
31	7/8-G-24"	3/11/14	0907	X	X	Floor - adjacent to caulk	X			X1	---	
32	7/8-G-6"D	3/11/14	0925	X	X	Floor - adjacent to caulk	X			X1	---	
33	7/8-G-12"D	3/11/14	0920	X	X	Floor - adjacent to caulk	X			X1	---	
34	13/14-G-6"	3/11/14	1314	X	X	Floor - adjacent to caulk	X			X1	---	
35	13/14-G-12"	3/11/14	1311	X	X	Floor - adjacent to caulk	X			X1	---	
36	13/14-G-18"	3/11/14	1308	X	X	Floor - adjacent to caulk	X			X1	---	
37	13/14-G-24"	3/11/14	1305	X	X	Floor - adjacent to caulk	X	1		X1	---	

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Gregory Kaczynski

Time:

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Time:

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CHAIN OF CUSTODY

Edition: September 2007
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LAB ID #.

PROJECT NUMBER

PROJECT NAME

211304.0000.0000

MDC - Reservoir #6 (Basin 1)
West Hartford, CT

PARAMETERS

CONTAINERS

TURNAROUND TIME

X 3 day -RUSH TAT

Rush TAT

Date Needed:

SIGNATURE

INSPECTOR

G.Kaczynski/M.Kostruba

NOTES

Lab ID:	SAMPLE ID:	DATE	TIME	TYP		SAMPLE LOCATION	EPA 8082 (3540C)	# of Amber Glass	# of Clear Glass	Matrix (X1=concrete, X2=cork, X3=caulk)	Preservative	NOTES
				COMP	GRAB							
38	13/14-G-6"D	3/11/14	1327	X		Floor - adjacent to caulk	X		1	X1	---	
39	13/14-G-12"D	3/11/14	1320	X		Floor - adjacent to caulk	X		1	X1	---	
40	17/18-G-6"	3/11/14	102	X		Floor - adjacent to caulk	X	1		X1	---	
41	17/18-G-12"	3/11/14	1058	X		Floor - adjacent to caulk	X			X1	---	
42	17/18-G-18"	3/11/14	1054	X		Floor - adjacent to caulk	X	1		X1	---	
43	17/18-G-24"	3/11/14	1050	X		Floor - adjacent to caulk	X	1		X1	---	
44	17/18-G-6"D	3/11/14	106	X		Floor - adjacent to caulk	X			X1	---	
45	17/18-G-12"D	3/11/14	108	X		Floor - adjacent to caulk	X	1		X1	---	
46	7/8-F-0"	3/11/14	0950	X		Floor - adjacent to tar/sealant	X	1		X1	---	

Relinquished by: (Signature)

Date:

Received by: (Signature)

Relinquished by: (Signature)

Date:

Received by: (Signature)

(Printed)

Time:

(Printed)

(Printed)

Time:

(Printed)

Gregory Kaczynski

2:30

3/13

Remarks: Standard QA/QC Reporting Level

Report to: Erik Plimpton (Eplimpton@TRCsolutions.com) (860) 298-9692

Include CT DPH RCP Report

PO# C211304

Condition upon Receipt:

Page 5 of 8

3/13/14

3/10/13/14

24 3/13

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APPENDIX D
STRUCTURAL EVALUATION

Memorandum

To	Scott Nell, P.E.	Page	1
CC	James Sullivan, P.E., Brian Canterbury, P.E., William Bent, P.E.		
Subject	Third-Party Review of Reservoir #6 Filtered Water Basin Rehabilitation		
From	Michael E. Malenfant, P.E.		
Date	16 August 2016		

Summary

AECOM was assigned the task of performing an independent peer review of construction documents for the Reservoir Number 6 Water Treatment Facility Rehabilitation of the Filtered Water Basin prepared by Hazen & Sawyer. The purpose of the project is to remove chemically impacted expansion joints and two feet of potentially impacted concrete on each side of the expansion joint. Concerns were identified by the District about the ability to remove this concrete and ensure the structural stability of the tank and appurtenant facilities.

The peer review identified two primary observations regarding the proposed work: possible structural sliding instability induced by groundwater, and design of the replacement concrete elements at the expansion joints. In addition, the team identified other minor items that may be improved upon, including construction sequencing and NSF/ASNI61 conformance.

Initial Project Review and Description

The purpose of the project is to perform rehabilitation of the Metropolitan District Commission (MDC) Reservoir #6 Filtered Water Basin expansion joint material, in addition to other mechanical and electrical upgrades. AECOM's understanding is that the Filtered Water Basin structural rehabilitation is to (a) remove and replace expansion joint material and two feet (2'-0") of concrete on either side of the expansion joints; and (b) install a waterproof membrane and drainage system on the entire Filtered Water Basin top slab.

AECOM was assigned the task of performing an independent peer review of the construction documents prepared for this task by Hazen & Sawyer, *Reservoir No. 6 Water Treatment Facility Rehabilitation of Filtered Water Basin*, dated April 2016. Additional resources include Groundwater Elevation maps by Zuvic-Carr, the original construction documents by Buck, Seifert, and Jost dated February, 1968, and a piping plan surrounding the reservoir dated 1971 of uncertain origin.

Memorandum

Upon completion of the independent review, AECOM identified observations that warrant further consideration as discussed below.

Structural Observations

AECOM's review of the construction documents identified nine key structural components of the rehabilitation effort which are discussed in the sections noted below.

1. Sliding Stability
2. Infiltration of Groundwater and Loss of Bearing Substrate
3. Buoyancy Stability
4. Loads on Top Slab
5. Final Design Conditions and Details
6. Excavations
7. Suitability for Use of Materials in Drinking Water System Component (NSF/ANSI 61)
8. Crack Repair and Riser Modifications
9. Other Specifications

Of particular importance is AECOM's observation with regard to dewatering requirements.

- References to dewatering are made in the provided Contract documents
 - Dewatering specifications are provided
 - A note is included on drawing S-01 states: "Temp Shoring, Excavation & Dewatering as required for Expansion joint reconstruction, TYP 4 locations. See Expansion Joint Remediation & reconstruction – at wall on DWG. S-06."
 - A note is included on S-06 "Section at Wall" stating "Temporary shoring, excavation & dewatering as required for expansion joint reconstruction".
- It appears to reviewers that the contract documents only require dewatering of excavations for the vertical wall sections, which may not be considered by a contractor as covering the extents of the removed portions of concrete within the bottom of the basin (i.e., complete dewatering under the basin).
- Items 1 through 3 are largely resolved by including or clarifying within the contract documents that dewatering is intended to include under the filter basin..

1. Sliding Stability

Based on the information provided, AECOM performed a sliding stability analysis for the Filtered Water Basin both as the basin was constructed and the multiple conditions during the rehabilitation work. The analysis focused on two sections: the west section, comprising of the portion of Compartment 1 to the west of the Expansion Joint, and the central section, comprising the portion of the Filtered Water Basin containing the center dividing wall. Each

Memorandum

section was analyzed for sliding effects with both the top slab soil in place and the top slab soil removed, with and without groundwater being taken into consideration. The purpose for the variation in groundwater as part of the study is due to AECOM's observation that the project specifications only require dewatering within the excavation, and not the entire basin area.

Note that in AECOM's analysis the at-rest equivalent lateral pressure was utilized given the imposed load effects and the movement necessary to develop the at-rest pressure with the effects of sliding and ensuing moment, however, greater knowledge of the geotechnical conditions at the site may result in a change in this assumption.

The analysis indicated that a number of variables have significant effects on the structural stability of the Filtered Water Basin that must be considered as part of the project. These variables are:

- 1) Unit weight of soil and concrete
- 2) Groundwater elevation
- 3) Imposed lateral soil loads
- 4) Coefficient of friction between concrete and underlying strata
- 5) Internal coefficient of friction of soil.

It is understood that different engineers, in their professional judgement, will reach different conclusions depending on assumptions made regarding backfill, the validity of the groundwater data, and assumptions of the soil effects on the Filtered Water Basin. AECOM utilized reasonably estimated values for most variables given the uncertain nature of design and the potential catastrophic effects of failure both on the Filtered Water Basin and on the operations of the water distribution system as a whole. Based upon the available data, the AECOM analysis utilized the following assigned values for the variables:

- 1) Unit Weight of Soil: 125 pounds per cubic foot (pcf)
- 2) Unit Weight of Concrete: 145 pcf
- 3) At-Rest Soil Pressure (Dry Soil): 65 pcf
- 4) At-Rest Soil Pressure (Wet Soil): 95 pcf
- 5) Coefficient of Friction between Concrete and Soil: 0.60
- 6) Angle of Soil Wedge from Vertical for Soil on Lip: 30 degrees

The groundwater elevation, obtained from the Zuvic-Carr Groundwater Elevation Map, dated January 17, 2014, was averaged based upon an assumed projection of the groundwater elevation contours. The average elevation of groundwater under the west portion of Compartment 1 was estimated to be Elevation 356.00; the average elevation of groundwater

Memorandum

under the central portion of the Filtered Water Basin was estimated to be Elevation 353.00. Based upon these results, AECOM determined the following factors of safety against sliding are detailed below, in Table 1.

Condition	Compartment No. 1, West Portion Factor of Safety, Sliding	Central Portion, One Compartment Full Factor of Safety, Sliding
No Soil on Top, No Dewatering	0.27	0.77
Soil on Top, No Dewatering	1.15	1.28
No Soil on Top, Dewater to El. 349.00	2.51	2.27
Soil on Top, Dewater to El. 349.00	3.43	3.38

Table 1: Factor of safety against sliding

It appears based upon the analysis above, with groundwater in place at the January 17, 2014 level, that the west end compartment is not stable for sliding when that compartment of Filtered Water Basin is empty and soil is removed from the top. It is therefore possible that upon removal of the four-plus feet of concrete adjacent to the expansion joint that the western section of Filtered Water Basin slides when there is no soil on the top. AECOM offers the following suggestions to reduce the potential for a sliding failure:

- 1) Additional study into the sliding stability of the west section compartment;
- 2) Leaving the soil on the top slab in place while Compartments below are empty;
- 3) Staged removal and replacement of expansion joint material; such as top and bottom first, then the sides, provided sufficient capacity exists to allow portions of the Filtered Water Basin to act as diaphragms; or
- 4) Temporary lowering of groundwater elevation under the Filtered Water Basin.

2. Infiltration of Water and Loss of Bearing Strata during Construction

Due to the groundwater elevation observed within the vicinity of the Filtered Water Basin, the potential exists for infiltration of groundwater and underlying bearing strata into the Compartment once a portion of the base slab is demolished. The base slab top of concrete is between Elevation 347.00 and 350.00; with groundwater variable under the Filtered Water Basin from a low point less than Elevation 351.00 to a high point along the Expansion Joint of Compartment Number 1 of Elevation 356.00. From the groundwater data it appears that there is approximately six feet (6'-0") of driving head at the location of the Expansion Joint.

AECOM is aware of a number of similar cases where demolition below the water table occurred in similar structures became problematic. In one instance, a 4-inch diameter core

Memorandum

was drilled through the base slab of a buried water storage reservoir for investigative purposes; and another where a secondary pressure relief mechanism was activated. In both cases, the velocity of the groundwater flowing into the reservoirs resulted in the scour of bearing strata by washing into the reservoir, a loss of bearing support, and the need for additional rehabilitation.

Similar to resolutions to the sliding issue, it may be possible to mitigate the infiltration by temporary dewatering. Due to the uncertainty of the effective driving head of groundwater under the Filtered Water Basin, it is recommended that a contingency plan be developed to address potential inflow and a loss of bearing strata through the use of low-pressure grouting or other means under the base slab of the Filtered Water Basin as well as a means to address the potential flooding within the Filtered Water Basin. It may be prudent to consider the installation of drilled pilot holes in concrete to be removed as part of the rehabilitation as a means to test the groundwater elevation while retaining a hydrophobic injection system on-site in the event groundwater infiltrates the basin through the pilot holes.

3. Buoyancy Stability

Similar to the sliding observations above, it is crucial to address the buoyancy of the Filtered Water Basin as a whole and of the relevant sections, particularly the west section during the rehabilitation effort. As seen in Table 2 below, the factor of safety against buoyancy uplift varies based upon both the presence of soil on the top slab and the groundwater elevation on the respective sections of the Filtered Water Basin.

Condition	Compartment No. 1, West Portion Factor of Safety, Buoyancy	Central Portion, One Compartment Full Factor of Safety, Buoyancy
No Soil on Top, No Dewatering	1.11	1.44
Soil on Top, No Dewatering	1.50	2.10
No Soil on Top, Dewater to El. 349.00	14.81	11.43
Soil on Top, Dewater to El. 349.00	19.95	16.60

Table 2: Factor of safety against buoyance uplift

While not globally unstable, AECOM suggests reviewing the groundwater elevations and factors of safety to determine if dewatering is required, or if the soil removal and replacement operation should only occur when both compartments are full. The methodology for addressing buoyancy (if such a concern exists) is to leave soil on the top slab of the Filtered Water Basin or implement dewatering to a lower elevation. Again, the resolution may be as

Memorandum

simple as verifying the extents of groundwater monitoring and/or dewatering over the entire basin area.

4. Loads on Top Slab

Construction loads

Due to the requirement to work on the top slab, remove soil, install the liner and drainage system, and replace soil, it is recommended that clear loading limits be established on the top slab of the Filtered Water Basin. While Note X-1 on sheet S-07 is intended to convey this information, it is left blank and may be inadequate to determine the permissibility of equipment. Additionally, loading lanes of greater load may be possible, for example at the dividing wall and at expansion joints, due to the potentially higher load capacity of these elements in compression compared to typical Filtered Water Basin columns. This could be of use during concrete operations or other activities where load capacities in excess of the general area load may prove beneficial.

Temporary support loads

The temporary shoring system for the top slab, while considered a construction means and methods component of the project, if improperly implemented, may result in either locked in stresses or potential future failure modes through increased cracking of the top slab. It is recommended that the service level design loads, including dead, soil, and live load, be indicated as line (slab) and point (beam) loads adjacent to the expansion joint to enable the contractor to select the appropriate shoring system. Determination of the imposed load may be beyond the expertise of a contractor, and providing the load will provide greater confidence against potential structural failures during construction.

Indication is present regarding minimum shoring requirements of beams and the slab, limited to indicating that continuous support for the edge of slab shall be required, which in AECOM's opinion, is the preferred method of shoring. The top slab as installed is designed as a two-way slab supported on all four sides; once the demolition occurs and if no support is offered, the east-west beams become cantilevers and the slab becomes supported on only three sides. It is the opinion of AECOM that the preferred shoring system at the free end will replicate the existing support configuration of the basin, with a near continuous support of the edge of the slab and additional supports under the beams; as specified in the Construction Documents.

An additional observation regarding the temporary shoring system is the need to remove load from components prior to demolition of those components. This is crucial not only for the safety of those involved, but for replicating the design condition of the Filtered Water Basin once the concrete elements are replaced and the shoring is removed. No notes or other

Memorandum

statements were located within the construction documents identifying this need; yet it is critical for the long-term serviceability of the Filtered Water Basin to restore the load path and deflection compatibility of the slab system following the rehabilitation effort.

5. Final Design Conditions and Details

"Section Beams", sheet S-06 details the demolition and reconstruction at the expansion joint in the base slabs, columns, and beams and is intended to depict the demolition of the affected concrete elevations adjacent to the expansion joint and the reconstruction of the same elements.

Top Slab

No section or details for top slab reinforcement or size is provided; it is assumed that the top slabs are to be replaced in-kind.

A concern at the interface of existing and new construction of the top slab is that the top slab is 8" thick; the specified waterstop within the slab is a 6" retrofit waterstop. The geometry of the retrofit waterstop only allows 1" of cover on both the top and bottom surface of the slab and suggests that the retrofit waterstop will interfere with the existing reinforcing steel. Due to the limits of available space it may be necessary to reduce the size of the retrofit waterstop at this location to a 4" retrofit waterstop, which will likely fit between the mats of steel.

Beams

The beams are apparently intended to be an in-kind replacement of Beam B-4 from the original design. Per provided record drawings, Beam B-4 is a 12" x 24" reinforced concrete beam with 2-#6 bars top and bottom continuous, and an additional 2-#6 bars bent to supplement the bottom and top steel at the points of maximum moment. The shear stirrups in the beam are #3 bars, the first stirrup at 4" from the face of the support and the remainder at a distance of 15"; with both the shear stirrups and top bar steel dropped approximately 6" to allow placement of the top expansion joint waterstop. The replacement beam is detailed as a 12" x 18" beam with 4-#7 bars top and bottom continuous, with shear stirrups in the beam are #3 bars at 12" on center, with no provision for placement of the expansion joint waterstop.

Based upon the greater area of steel and higher material strengths, the moment capacity of the replacement beams exceed that of the original beam; however, the shear capacity of the replacement beams is approximately 10% lower. Additional items of concern are that the intersecting beams B-1 that frame into B-4 are also 18" x 24" beams and the shear stirrup spacing of greater than half the depth to steel may violate the provisions of §11.5.4.1 of ACI 350-06. Because of these concerns, in the absence of additional analysis AECOM suggests further investigation into an in-kind replacement with 12" x 24" beams and placing the stirrups at a spacing of no greater than 10" on center.

Memorandum

Additional beam detailing that is required is for the intersecting portions Beams B-1 which frame in to the new Beam B-4. During the demolition operations, 2'-0" of concrete will be removed, 1'-0" consisting of beam B-4 and then 1'-0" off the end of Beam B-1. Due to the nature of shear stresses in beams, demolition in this location places a construction joint near the point of maximum shear and will require design consideration and detailing to address that shear both in terms of shear friction reinforcement of shear stirrups conveyed on the construction documents in greater detail.

Columns

Section A-A on S-06 details column reinforcement for the replacement column; it is assumed that the columns are to be replaced in-kind. However, additional detail is required to identify the tie spacing at the base and top and top dowel termination details. Additionally, the spacing of the longitudinal bars (3-#7 each face) may require additional ties as the ties may be spaced greater than 6" on center.

Base Slab

No section or details for base slab reinforcement or size is provided; it is assumed that the base slabs are to be replaced in-kind.

It is suggested that full details of the slab, beam, column, and base slab concrete and reinforcing steel be provided; including geometry, reinforcing steel information including location of stirrups and ties, and dowel requirements. Additionally, if permitted, edge distance and embedment length for replacement bars in the event that a slab bar is cut may be shown.

Note that in order to fully develop the internal friction of concrete for shear capacity the existing concrete at the interface between new and existing concrete must be intentionally roughened to ¼" amplitude in accordance with ACI 350-01, §11.7.9. This is particularly important for Beams B-1, the top slab, and the base slab components where high shear stresses are expected, and may be of value for the walls to avoid potential movement at the joint under loading. The exception in this case would be at the retrofit waterstops, where it will be required to have a smooth surface to increase the effectiveness of the retrofit waterstop.

Shoring

It is recommended that the shoring system installation requirements include temporarily jacking the roof slab in the affected areas so that no "locked-in stresses" are imposed in the slab prior to the installation of the replacement beams and slabs.

Water Tightness

The project creates two water pathways through concrete where only one existed previously at the expansion joint. As discussed above regarding the section titled Section at Beams on

Memorandum

S-06; AECOM recommends replacing the 6" retrofit waterstop with a 4" retrofit waterstop due to the restrictions caused by the top slab thickness. AECOM further recommends incorporating a detail from the original construction where the top steel and the stirrups for the Beam B-4 element are lowered approximately 6" to allow the continuation of the expansion joint waterstop within the top slab.

An additional recommendation to benefit to the water tightness of the project is the specified use of the expansion joint seal in lieu of the joint sealant. The Expansion Joint Seal is designed to develop a water-tight connection in addition to being a lower-maintenance component; and it is AECOM's opinion that the Expansion Joint Seal selected by the designers represents the best possible solution. Note that the section titled, Section at Beams, S-06, includes references to joint sealant, which does not exist at this location based on the specifications.

The underside of the joint filler (inside the basin) contained between the beams at the top slab must be supported in some manner, otherwise, debris from the joint filler will eventually fall into the basin either due to age related deterioration or movement of the joint. It is recommended that the Expansion Joint Seal installation be extended on the interior surface of the expansion joint the full interior perimeter of the joint so as to retain the filler material.

6. Excavations

The detail titled Section at Wall on S-06 identifies a temporary excavation support system for the section of demolition and reconstruction at the exterior face of the wall. The width of the excavation system is identified as 48" minimum, however, note that a pipe runs near this location on the north side of the Filtered Water Basin.

An October, 1971 drawing titled "Reservoir No. 6 Filtration Plant Piping and Valves", with the notation "R.J.F." shows a 90-inch Filtered Water line with a centerline 10'-0" from the north exterior face of the Filtered Water Basin wall; or approximately 6'-3" clear space between the exterior of the Filtered Water Basin and the Filtered Water line. Due consideration must be made for the construction tolerances of the installation of the 90-inch Filtered Water line and variability of the installation of the temporary excavation support system. Designers may consider specifically calling out this significant infrastructure and any special requirements, including inspection or monitoring, in design documents.

On the south face of the Filtered Water Basin, a 1-inch sampling line is shown located 8'-0" from the face of the Filtered Water Basin, with similar concerns to that of the 90-inch line, above.

Memorandum

Because of the presence of utilities adjacent to the basin, and the fact that the utility plan made available to AECOM is apparently not part of the original design set; it is suggested to include the 1971 piping plan as part of the Construction Documents issued for bid.

In addition to noting the presence of utilities, it is recommended to identify permissible excavation support system bracing locations and loads against the Filtered Water Basin walls. This is due to the limited workspace available and the need to resist the lateral soil load imposed on the temporary excavation support system with an equal and opposite force, potentially provided by the Filtered Water Basin walls (which based on the construction is suspected of being able to resist at least the equivalent lateral soil pressure).

7. Suitability for Use of Materials in Drinking Water System Components (NSF/ANSI 61)

In lieu of joint sealant material, the design utilizes an expansion joint seal, sole source specified as a Hydrozo/Jeene Structural Sealing Joint System (\$03250-2.09-B), designed for bridge decks. Review of NSF/ANSI databases suggests that the specified joint sealant material is not NSF/ANSI 61 approved for drinking water exposure. An alternate product that performs in a similar manner and is NSF/ANSI 61 approved is the Emseal Submerseal System, however, that product is only rated for chlorine exposures up to 5ppm so it may be negatively affected by the disinfection procedure.

An alternative flexible mastic joint sealant that may be utilized (in a traditional joint filler/joint sealant installation) is either Synthacalk GC2+ (Pecora Corporation); Tammsflex NS (Euclid Chemical Company); or Thiokol 2235M (PolySpec). These three joint sealant materials are each approved by their respected manufacturer's for use with chlorine exposures up to 50ppm and are NSF/ANSI 61 approved as of the date of this memorandum; however, these are also traditional joint sealant materials and lack the benefit of the Expansion Joint System.

It is recommended that \$03300 contain language requiring all admixtures to conform to the requirements of NSF/ANSI 61 for use in potable water systems. With respect to pozzolans, AECOM is not aware of any fly ash that has been tested or meets the requirements of NSF/ANSI 61. Holcim's Grancem product has NSF/ANSI 61 certification if the use of a pozzolan is recommended.

Outside of the concern for NSF/ANSI 61 certification for components; the contract documents call for leaving the reinforcing steel in the demolished portion of concrete in place and undamaged. However, it may be necessary to remove the reinforcing steel within the specified concrete width if the reinforcing steel is contaminated or damaged, in which case details for drilled adhesive installation of reinforcing steel will be required.

Memorandum

8. Crack Repair and Riser Modifications

The crack repair and rehabilitation appears to be in accordance with accepted practice. Unless the cracks are actively leaking or reinforcing steel corrosion is noted, it may not be necessary to repair cracks or replace an existing wall patch immediately. However, performing the repairs in the dry while completing the rest of the work is, in AECOM's opinion, the best option compared to a subsequent repair operation; and therefore, the likely appropriate approach.

With respect to rebuilding the entrance hatches, the new riser walls are constructed with an expanding rubber waterstop at the interface between the slab and the walls, which is appropriate given the relatively thin top slab and walls and the difficulty in installing a PVC waterstop in those locations. The top of the risers are located two feet (2.00 feet) above grade, reducing potential infiltration at the hatch level, and in AECOM's opinion, is an appropriate feature to include in the design. Of possible additional value to consider at this joint to reduce potential infiltration of rainwater and snow melt is the addition of an exterior PVC strip waterstop, such as the Sika Sikadur Combiflex system to provide a redundant waterstop along with the expanding rubber waterstop.

9. Other Specifications

Specification observations

Note that §03250 references §07900 for joint sealants, however, §07900 specification is not included in the bid set obtained by AECOM, and appears that it may not be necessary.

Sequencing

The construction sequence outlined in Specification Section 01143, Coordination with Owner's Operations, and that identified on Drawing C-03, Drainage Plan, General Notes, and Details; appears to not be coordinated in that it may be read that the removal of top slab soil is independent of the interior work. As discussed earlier, our review indicates that the weight of the soil on the top slab is crucial for maintaining sliding stability of the exterior portion of the Filtered Water Basin, and the sequence of construction should incorporate consideration of the need for the top slab soil, or specify dewatering measures including timeline of dewatering operations as well as to what elevation dewatering is to be maintained.

Memorandum

References

- 1) Hazen & Sawyer, *Reservoir No. 6 Water Treatment Facility Rehabilitation of Filtered Water Basin*, April 2016.
- 2) Zuvic-Carr, *Reservoir No. 6 Filtered Water Basin Upgrade, Groundwater Elevation Map*, January 17, 2014.
- 3) Buck, Seifert, and Jost, *Reservoir 6 Water Treatment Plant, Stage I*, February 1968.
- 4) RJF, *Reservoir No. 6 Filtration Plant Piping and Valves*, October, 1971.
- 5) American Concrete Institute, *Code Requirements for Environmental Engineering Concrete Structures and Commentary*, ACI 350-01, 2001.

APPENDIX E
OWNER CERTIFICATION



The Metropolitan District
water supply • environmental services • geographic information

November 1, 2016

Kimberly N. Tisa, Region 1 PCB Coordinator
United States Environmental Protection Agency
5 Post Office Square, OSRR07-2
Boston, MA 02109-3912

Subject: Written Certification Required Under §761.61(a)(3)(E)
Filtered Water Basins Rehabilitation Project
The Metropolitan District
Reservoir No. 6 Water Treatment Facility
Rehabilitation of Filtered Water Basin Project
2900 Albany Avenue, West Hartford, CT

Dear Ms. Tisa:

To the best of my knowledge, I certify that all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to access or characterize the PCB contamination at the Reservoir No. 6 Water Treatment Facility are on file at the Weston & Sampson offices located at 273 Dividend Road, Rocky Hill, CT and are available for EPA inspection.

If you have any questions, comments or concerns you may contact Malcolm Beeler via phone at 860-513-1473 ext 3077 or via email at beelerm@wseinc.com.

Very Truly Yours,

Jeffrey Davis, P.E., L.S.
Manager of Design
The Metropolitan District

cc: Gary Trombly, CT DEEP
Thomas Chyra, Supervising Sanitary Engineer, CT DPH-Drinking Water Section